

**USS TAYLOR (FFG-50)**  
**HULL MECHANICAL ELECTRICAL READINESS**  
**ASSESSMENT**  
**SHELL CONDITION SURVEY**  
**OF INTERIOR AREAS**  
**02/18/03 TO 02/27/03**



**PREPARED BY**  
**SUPERVISOR OF SHIPBUILDING CONVERSION**  
**AND**  
**REPAIR**  
**PORTSMOUTH, VIRGINIA**





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26 February 2003  
Serial # 1697BL – 118

Q.E.D. Systems, Inc. was tasked by the Supervisor of Shipbuilding Conversion and Repair, USN (SPORT) Portsmouth, VA to conduct an Ultrasonic Thickness (U/T) Survey of specific locations on board USS TAYLOR (FFG-50) during the period of 18 February 2003 – 27 February 2003.

The survey was conducted by Francis J. (Joe) LaRock II, Certified U/T Level 2 on 21 December 2001.

The instrument used was a Krautkramer Branson, Model DMS-2.

Serial Number:	00N3V8
Calibration Date:	10 February 2003
Probes Used:	TC 560
	FH 2 E
	KBA 525

On behalf of **SUPSHIP PORTSMOUTH** and **Q.E.D.SYSTEMS**, I would like to thank The OFFICERS and CREW of **USS TAYLOR (FFG-50)** for their help and cooperation while conducting this survey. The condition of **USS TAYLOR** reflects the determination, pride and traditions of the **UNITED STATES NAVY**.

THANK YOU

A handwritten signature in cursive script, reading "F.J. LaRock II".

F.J LaRock II  
Q.E.D. SYSTEMS INC.

# USS TAYLOR (FFG-50)

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**USS TAYLOR (FFG-50)**  
**SHELL CONDITION ASSESSMENT SURVEY, INTERIOR AREAS.**

A HM& ERA UNDERWATER HULL AND SUPPORTING STRUCTURE SURVEY OF INTERIOR AREAS WAS CONDUCTED ON BOARD **USS TAYLOR (FFG-50)** FROM 02/18/03 TO 02/27/03 AT NAVAL STATION MAYPORT, FLORIDA.

THE SURVEY WAS CONDUCTED IN ACCORDANCE WITH HULL STRUCTURE MRC 1102 USING A DELMHORST BD 2100 MOISTURE METER AND A KRAUTKRAMER BRANSON MODEL DM2TC ULTRASONIC TEST INSTRUMENT SERIAL NO.00NV8 CALIBRATION DUE DATE 02/10/03. THE PROBES USED WERE KRAUTKRAMER BRANSON'S TC/560, FH2E AND KBA 525.

THE MOST CRITICAL AREAS NOTED WERE THE THINNING HULL, BULKHEAD 56 AND THE DETERIORATED STRINGER IN THE SONAR COOLING EQUIPMENT ROOM, THE HOLE IN WEB FRAME (324) AND THE THINNING MARGIN PLATE IN AMR 3, THE HOLED STRINGERS IN THE MAIN ENGINE ROOM THE HOLED STRINGER AND SATURATED HULL INSULATION IN AMR2, THE CORROSION IN THE FORWARD EDUCTOR ROOM AND THE THINNING OF THE TANK TOP / DECK IN THE A/C MACHINERY ROOM.

HISTORIC AREAS OF CORROSION ON **(FFG-7)** CLASS SHIPS WERE INSPECTED AND NOTED. THE OVERALL CONDITION OF **USS TAYLOR'S** HULL STRUCTURE IS BETTER THAN AVERAGE FOR THE (FFG-7) CLASS. REMOVAL OF HULL INSULATION PORT SIDE AMR 2, STARBOARD SIDE IN THE MAIN ENGINE ROOM AND THE SONAR COOLING EQUIPMENT ROOM WILL REDUCE CORROSION SIGNIFICANTLY. THE SURVEY RESULTS PROVIDE ADDITIONAL INFORMATION.

## FFG-50 STRUCTURAL INSPECTION RESULTS

### UNSATISFACTORY AREAS.

RED DENOTES AREAS THAT HAVE DETERIORATION AND METAL LOSS  
THE AREAS IN BLACK ARE MINOR CORROSION PROBLEMS

LOCATION	AREA	RESULTS
5-292-0-E AMR 3 CSMP A162	PORT SIDE, BETWEEN BHD 328 AND FRAME 324	APPROX 8 SF OF MARGIN PLATE IS THINNING BELOW THE 25% WASTAGE CRITERIA. APPROX 60 SF FROM MARGIN PLATE TO STRINGER (12) HAS HEAVY CORROSION AND PAINT SEPARATION.
5-292-0-E AMR 3 JSN-A339	PORT SIDE FRAME 324	FRAME324 IS DETERIORATED AT THE JUNCTION OF THE SHELL AND MARGIN PLATE
5-250-0-E MER JSN- A346	PORT SIDE BETWEEN FRAMES 264 AND 270	3 <sup>RD</sup> , 4 <sup>TH</sup> , AND 5 <sup>TH</sup> STRINGERS FROM THE MARGIN PLATE ARE HOLED
5-250-0-E MER JSN A427	STARBOARD SIDE, FROM MARGIN PLATE TO 3 <sup>RD</sup> STRINGER ABOVE THE LOWER LEVEL DECK.	200 SQFT OF SATURATED HULL INSULATION AND CORROSION
5-212-0-E AMR 2 JSN-A341	STARBOARD SIDE STRINGER 8 BETWEEN BHD 212 AND FRAME 220.	STRINGER 8 IS HOLED BELOW OVBD DISCHARGE
5-212-0-E AMR 2 JSN A344	PORT AND STARBOARD, FROM BULKHEAD (212) TO FRAME 278	SATURATED INSULATION AND CORROSION PORT SIDE CORROSION STARBOARD SIDE
5-180-0-E AMR 1 CSMP-A174	PORT SIDE, UNDER REEFER COMPRESSOR NO. 2, UNDER HALON BOTTLE STATION AND INBOARD OF BALLAST BLOCKS, AFT OF WF (196).	APPROX 200 SF OF CORROSION AND PAINT SCALING.
5-51-0-Q FWD EDUCTOR ROOM JSN- A410	PORT AND STBD SIDE BILGE AREA.	APPROX 8 LF OF VERTICAL STIFFNER, APPROX 1 LF OF FLANGE IS DETERIORATED.
4-100-0-E APU MACHINERY ROOM JSN-A347	PORT AND STBD SIDE BILGE POCKETS	APPROX 80 SQFT OF CORROSION
4-48-1-Q SONAR COOLING ROOM JSN- A411	STBD SIDE, FROM DECK TO 3 <sup>RD</sup> STRINGER AND BHD (56)	SHELL THINNING, BHD 56 THINNING 2 <sup>ND</sup> STRINGER FROM THE DECK IS DETERIORATED AT BHD 56
3-84-0-E A/C MACHINERY ROOM JSN-A404	TANK TOP / DECK INBOARD OF A/C PLANT	TANK TOP THINNING

**USS TAYLOR (FFG-50)****SATISFACTORY AREAS**

<b>LOCATION</b>	<b>SPACE DESIGNATION</b>
3-32-1-K	FLAMMABLE STORAGE LOCKER
3-36-2-T	ESCAPE TRUNK
3-40-2-A	CPO STOREROOM
3-46-1-A	SPECIAL CLOTHING STOREROOM
3-48-2-A	MEDICAL STOREROOM NO.1
3-53-2-A	SMALL STORES
3-56-1-A	DECK GEAR STOREROOM
3-93-1-Q	400 HZ ENCLOSURE
3-100-0-L	CREW BERTHING
3-100-1-L	CREW LOUNGE
3-113-1-L	SHOWER WR/WC
3-140-3-Q	CLEANING GEAR LOCKER
3-144-0-L	CREW BERTHING
3-144-2-L	OFFICER/CPO BERTHING
3-154-1-Q	PIPING SPACE
3-156-2-Q	PIPING SPACE
3-180-2-C	SWITCH GEAR ROOM
3-180-5-A	DRY PROVISIONS STOREROOM
3-196-2-A	SHIPS STORES STOREROOM
3-328-0-A	SUPPLY STOREROOM
4-32-0-Q	SONAR EQUIPMENT ROOM
4-48-2-L	PASSAGE WAY
4-56-0-M	SMALL ARMS MAGAZINE
4-56-2-A	STOREROOM
4-140-2-Q	LAUNDRY
4-151-3-A	CLEANING GEAR LOCKER
4-152-1-A	STOREROOM
4-152-3-A	CHEMICAL DEFENSE EQUIPMENT STOREROOM
4-160-0-Q	CHT ROOM
4-172-1-E	FIRE PUMP ROOM
5-376-1-A	STOREROOM
5-390-1-A	DECK GEAR STOREROOM

**FFG-50 STRUCTURAL INSPECTION RESULTS  
UNASSESSABLE AREAS.**

LOCATION	AREA	RESULTS
3-20-0-Q	CHAIN LOCKER	UNASSESSABLE/REQUIRES GAS FREE
3-64-2-V	VOID	UNASSESSABLE/REQUIRES GAS FREE
3-64-1-V	VOID	UNASSESSABLE/REQUIRES GAS FREE
3-236-1-F	FUEL TANK	UNASSESSABLE/REQUIRES GAS FREE
3-236-2-F	FUEL TANK	UNASSESSABLE/REQUIRES GAS FREE
3-240-1-F	FUEL TANK	UNASSESSABLE/REQUIRES GAS FREE
3-240-2-F	FUEL TANK	UNASSESSABLE/REQUIRES GAS FREE
3-272-1-F	FUEL TANK	UNASSESSABLE/REQUIRES GAS FREE
3-272-2-F	FUEL TANK	UNASSESSABLE/REQUIRES GAS FREE
3-278-1-F	FUEL TANK	UNASSESSABLE/REQUIRES GAS FREE
3-278-2-F	FUEL TANK	UNASSESSABLE/REQUIRES GAS FREE
3-286-1-F	FUEL TANK	UNASSESSABLE/REQUIRES GAS FREE
3-286-2-F	FUEL TANK	UNASSESSABLE/REQUIRES GAS FREE
3-292-8-F	FUEL TANK	UNASSESSABLE/REQUIRES GAS FREE
3-316-1-J	JP5 FUEL TANK	UNASSESSABLE/REQUIRES GAS FREE
3-322-1-J	JP5 FUEL TANK	UNASSESSABLE/REQUIRES GAS FREE
4-H-0-V	VOID	UNASSESSABLE/REQUIRES GAS FREE
4-27-0-V	VOID	UNASSESSABLE/REQUIRES GAS FREE
5-FF-0-V	VOID	UNASSESSABLE/REQUIRES GAS FREE
5-32-0-W	SALT WATER TANK	UNASSESSABLE/REQUIRES GAS FREE
5-56-0-F	FUEL TANK	UNASSESSABLE/REQUIRES GAS FREE
5-64-0-F	FUEL TANK	UNASSESSABLE/REQUIRES GAS FREE
5-84-1-F	FUEL TANK	UNASSESSABLE/REQUIRES GAS FREE
5-84-2-F	FUEL TANK	UNASSESSABLE/REQUIRES GAS FREE
5-100-3-F	FUEL TANK	UNASSESSABLE/REQUIRES GAS FREE
5-100-4-F	FUEL TANK	UNASSESSABLE/REQUIRES GAS FREE
5-116-1-F	FUEL TANK	UNASSESSABLE/REQUIRES GAS FREE
5-116-2-F	FUEL TANK	UNASSESSABLE/REQUIRES GAS FREE
5½-116-0-V	VOID	UNASSESSABLE/REQUIRES GAS FREE
5-132-0-F	CONTAMINATED OIL TANK	UNASSESSABLE/REQUIRES GAS FREE
5-137-1-T	UNDERWATER LOG TANK	UNASSESSABLE/REQUIRES GAS FREE
5-140-1-F	FUEL TANK	UNASSESSABLE/REQUIRES GAS FREE
5-140-2-F	FUEL TANK	UNASSESSABLE/REQUIRES GAS FREE
5-164-0-F	CONTAMINATED OIL TANK	UNASSESSABLE/REQUIRES GAS FREE
5-164-1-F	FUEL TANK	UNASSESSABLE/REQUIRES GAS FREE
5-164-2-F	FUEL TANK	UNASSESSABLE/REQUIRES GAS FREE

# MATERIAL ASSESSMENT FORM

ITEM NUMBER		SHIP USS TAYLOR (FFG-50)			
SYSTEM SHELL & SUPPORTING STRUCTURE		ESWBS 11011	EIC A100	APL N/A	RIN 31TZZ
EQUIPMENT NAME HULL STRUCTURE		IDENT/SERIAL N/A	LOCATION 5-292-0-E	WORK CENTER EM04	JSN A 339
EQUIPMENT STATUS		PROBLEM STATUS		CATEGORY	EOC
1. SAT - SATISFACTORY 2. UNSAT - UNSATISFACTORY 3. TNA - TEST NOT ATTEMPTED 4. TNC - TEST NOT COMPLETED 5. NOB - EQUIPMENT NOT ONBOARD		1. C - CORRECTED 2. A - AWAITING PARTS 3. T - AWAITING TECH ASSIST* 4. S - SHIP'S FORCE *UNCORRECTED PROBLEMS		1. S - PERSONNEL SAFETY 2. Z - EQUIPMENT SAFETY 3. H - HARDWARE 4. D - DOWN 5. L - LIMITED	.8
TYPE/AVAILABILITY	WHEN TO BE ACCOMPLISHED	STATUS	CAUSE	DEFERRAL REASON	
1. DEPOT 2. IMA 3. TECH ASSIST 4. SHIP'S FORCE 5. SFWL	1. IMMEDIATELY 2. PRIOR TO NEXT UNDERWAY 3. PRIOR TO NEXT DEPLOYMENT 4. DURING POST DEPLOYMENT AVAILABILITY	1. OPERATIONAL 2. NON-OPERATIONAL 3. REDUCED CAPABILITY 0. NOT APPLICABLE	1. ABNORMAL ENVIRONMENT 2. MANUFACTURER/INSTALLATION DEFECTS 3. LACK OF KNOWLEDGE 4. COMMUNICATION PROBLEMS 5. INADEQUATE INSTRUCTION/PROCEDURE 6. INADEQUATE DESIGN 7. NORMAL WEAR AND TEAR 0. NOT APPLICABLE	1. S/F BACKLOG/OPERATIONAL PRIORITY 2. LACK OF MATERIAL 3. NO FORMAL TRAINING ON THIS EQUIPMENT 4. FORMAL TRAINING INADEQUATE IN THIS EQUIPMENT 5. INADEQUATE SCHOOL PRACTICAL TRAINING 6. LACK OF FACILITIES/CAPABILITIES 7. NOT AUTHORIZED FOR S/F ACCOMPLISHMENT 8. FOR S/F OVERHAUL OR AVAILABILITY WORK LIST 9. LACK OF TECHNICAL DOCUMENTATION 0. OTHER OR NOT APPLICABLE	
MAN HRS EXPENDED 2	MAN HRS REMAINING	COMPLETED ACTION TAKEN		S/F MANHOURS	PRIORITY
SAFETY HAZARD: 1. SERIOUS - CORRECT AS SOON AS POSSIBLE 2. SERIOUS - SUSPENSION OF EQUIPMENT/SYSTEM/SPACE REQUIRED 3. SERIOUS - WAIVER OF EQUIPMENT/SYSTEM 4. SAFETY ITEM - MINOR 5. COMBUSTIBLE MATERIAL		1. MAINTENANCE ACTION COMPLETED: PARTS DRAWN FROM SUPPLY 2. MAINTENANCE ACTION COMPLETED: REQUIRED PARTS NOT DRAWN FROM SUPPLY 3. MAINTENANCE ACTION COMPLETED: NO PARTS REQUIRED 4. CANCELLED - DEFERRAL WILL BE REMOVED FROM CSMP 7. MAINTENANCE ACTION COMPLETED: 3-M CAPABILITY UTILIZED 0. NONE OF THE ABOVE, DESCRIBE IN REMARKS/DESCRIPTION SECTION			1. MANDATORY 2. ESSENTIAL 3. HIGHLY DESIRABLE 4. DESIRABLE
DISCREPANCY DESCRIPTION: PER HM&ERA UNDERWATER HULL ASSESSMENT: 5-292-0-E AMR3 PORT SIDE, THE WEB OF FRAME 324 IS SEVERELY DETERIORATED AT THE JUNCTION OF THE MARGIN PLATE AND THE SHELL.					
RECOMMENDED REPAIRS: IN CONJUNCTION WITH REPAIRS TO MARGIN PLATE (CSMP-A162) CROP OUT AND REPLACE APPROX. 1 SQFT OF FRAME 324 WITH .250 OS. REFER TO NAVSHIPS DRAWING NO. 5534342 REV A SHEET 16					
SSPORT C221 POC: B. WILLIAMS (757-396-4001 EXT-2166 ) TPOC: C. BUCK					
CSMP SUMMARY: FRAME 324 PORT, DETERIORATED 5-292-0-E				TEST# MRC 1102/1	
ROOT CAUSE/AMPLIFICATION: H1				STEP# 1 THRU 5	
SYSTEM LEVEL IMPACT:					
PART NO.	NOMENCLATURE		QTY	NSN	COST
1					
2					
3					
4					
5					
6					
FIRST CONTACT GUEVERA	RATE DC1	SECOND CONTACT REYES		RATE DCC	PHONE
ASSESSOR / ACT / TECH ID# J. LAROCK QED SYSTEMS INC			TD	TL	LOGISTICIAN TSP



# CSMP REVIEW

ITEM NUMBER				SHIP USS TAYLOR (FFG-50)			
SYSTEM STRUCTURAL		ESWBS 1100	EIC A100000	APL X-SYSTEMS		RIN N/L	
EQUIPMENT NAME SHELL AND SUPPORTING STRUCTURE		IDENT/SERIAL NONE		LOCATION 5-292-0-E	WORK CENTER EM04	JSN A162	
EQUIPMENT STATUS		PROBLEM STATUS		CATEGORY			EOC
1. SAT - SATISFACTORY 2. <b>UNSAT - UNSATISFACTORY</b> 3. TNA - TEST NOT ATTEMPTED 4. TNC - TEST NOT COMPLETED 5. NOB - EQUIPMENT NOT ONBOARD		1. C - CORRECTED 2. A - AWAITING PARTS 3. <b>T - AWAITING TECH ASSIST*</b> 4. S - SHIP'S FORCE *UNCORRECTED PROBLEMS		1. S - PERSONNEL SAFETY 2. Z - EQUIPMENT SAFETY 3. <b>H - HARDWARE</b> 4. D - DOWN 5. L - LIMITED			
TYPE AVAILABILITY	WHEN TO BE ACCOMPLISHED	STATUS	CAUSE		DEFERRAL REASON		
1. DEPOT 2. IMA 3. TECH ASSIST 4. SHIP'S FORCE 5. SFWL  <b>1</b>	1. IMMEDIATELY 2. PRIOR TO NEXT UNDERWAY 3. <b>PRIOR TO NEXT DEPLOYMENT</b> 4. DURING POST DEPLOYMENT AVAILABILITY  DEADLINE DATE: 01/24/2003	1. <b>OPERATIONAL</b> 2. NON-OPERATIONAL 3. REDUCED CAPABILITY 0. NOT APPLICABLE  <b>1</b>	1. ABNORMAL ENVIRONMENT 2. MANUFACTURER/INSTALLATION DEFECTS 3. LACK OF KNOWLEDGE 4. COMMUNICATION PROBLEMS 5. INADEQUATE INSTRUCTION/PROCEDURE 6. INADEQUATE DESIGN 7. <b>NORMAL WEAR AND TEAR</b> 0. NOT APPLICABLE  <b>7</b>		1. S/F BACKLOG/OPERATIONAL PRIORITY 2. LACK OF MATERIAL 3. NO FORMAL TRAINING ON THIS EQUIPMENT 4. FORMAL TRAINING INADEQUATE IN THIS EQUIPMENT 5. INADEQUATE SCHOOL PRACTICAL TRAINING 6. <b>LACK OF FACILITIES/CAPABILITIES</b> 7. NOT AUTHORIZED FOR S/F ACCOMPLISHMENT 8. FOR S/F OVERHAUL OR AVAILABILITY WORK LIST 9. LACK OF TECHNICAL DOCUMENTATION 0. OTHER OR NOT APPLICABLE  <b>6</b>		
MAN HRS EXPENDED	MAN HRS REMAINING	COMPLETED ACTION TAKEN		S/F MANHOURS	PRIORITY		
SAFETY HAZARD: 1. SERIOUS - CORRECT AS SOON AS POSSIBLE 2. SERIOUS - SUSPENSION OF EQUIPMENT/SYSTEM/SPACE REQUIRED 3. SERIOUS - WAIVER OF EQUIPMENT/SYSTEM 4. SAFETY ITEM - MINOR 5. COMBUSTIBLE MATERIAL		1. MAINTENANCE ACTION COMPLETED: PARTS DRAWN FROM SUPPLY 2. MAINTENANCE ACTION COMPLETED: REQUIRED PARTS NOT DRAWN FROM SUPPLY 3. MAINTENANCE ACTION COMPLETED: NO PARTS REQUIRED 4. CANCELLED - DEFERRAL WILL BE REMOVED FROM CSMP 7. MAINTENANCE ACTION COMPLETED: 3-M CAPABILITY UTILIZED 0. NONE OF THE ABOVE, DESCRIBE IN REMARKS/DESCRIPTION SECTION			1. MANDATORY 2. ESSENTIAL 3. <b>HIGHLY DESIRABLE</b> 4. DESIRABLE		
PER SEMAT II – PORT SIDE, (5-292-0-E) AMR 3 BETWEEN BULKHEAD (328) AND WF (324) MARGIN PLATE IS THINNING BELOW THE 25 PERCENT WASTAGE CRITERIA, APPROXIMATELY 8 SQUARE FEET BETWEEN BULKHEAD (328) AND WF (316) FROM MARGIN PLATE TO STRINGER (12) SHELL AND STRINGERS HAVE HEAVY CORROSION AND HEAVY PAINT SEPARATION APPROXIMATELY 60 SQUARE FEET. XXX RECOMMEND REPAIR ACTIVITY CLEAN AND GAS FREE POTABLE WATER TANK (5-308-2-W). CUT OUT APPROXIMATELY 8 SQUARE FEET OF MARGIN PLATE, REPLACE WITH .250 MILD STEEL, LEAK TEST TANK, CLEAN APPROXIMATELY 60 SQUARE FEET OF AREA BETWEEN BULKHEAD (328) AND WF (316) TO BARE METAL, PRESERVE AND PAINT. THIS 2KILO VALIDATED BY J. THOMAS, 10 DEC 02, POC A. DAVIS, SPORT CODE 221, DSN 961-4001, COM (757) 396-4001. DEADLINE DATE: 24 JAN 2003, RECOMMEND REPAIR PRIOR TO NEXT DEPLOYMENT							
CSMP SUMMARY: STRUCT MARGIN PLATE THINNING						TEST#	
ROOT CAUSE/AMPLIFICATION						STEP#	
SYSTEM LEVEL IMPACT:							
TECHNICIAN MARK APPROPRIATE BLOCKS: 2-KILO IS:  ✕ VALID (NO CORRECTIONS) — REWRITE (VALID) — FOUND COMPLETE — COMPLETED BY SEMAT — CANCEL (WORK NOT REQUIRED) — NOT VALIDATED				UPLOAD VALIDATION INFORMATION / CORRECTIONS TO SNAP:  — YES  — NO			
FIRST CONTACT TOLLEY	RATE DC 2	SECOND CONTACT REYES		RATE DCC	PHONE		
BLUEPRINTS: TECH MANUALS, PLANS, ETC.						ON BRD YES NO	
ASSESSOR: J. LAROCK QED SYSTEMS INC. CODE SSORT C 221 757-396-4001				TD	TL	LOGISTICIAN	PAGE NO

**USS TAYLOR (FFG-50)  
AUXILIARY MACHINERY ROOM 3 (5-292-0-E)**



SEVERELY CORRODED MARGIN PLATE BETWEEN FRAMES 324 AND 328  
SEVERAL U/T READINGS ARE BELOW THE 25% WASTAGE CRITERIA.  
REFER TO DRAWING. CSMP A162.



LOOKING FORWARD AT FRAME 324. THE WEB IS SEVERELY DETERIORATED.  
JSN A339

**USS TAYLOR (FFG-50)**  
**AUXILIARY MACHINERY ROOM 3 (5-292-0-E)**



CORROSION IN BILGE AT FRAME 316 PORT SIDE. CSMP A162

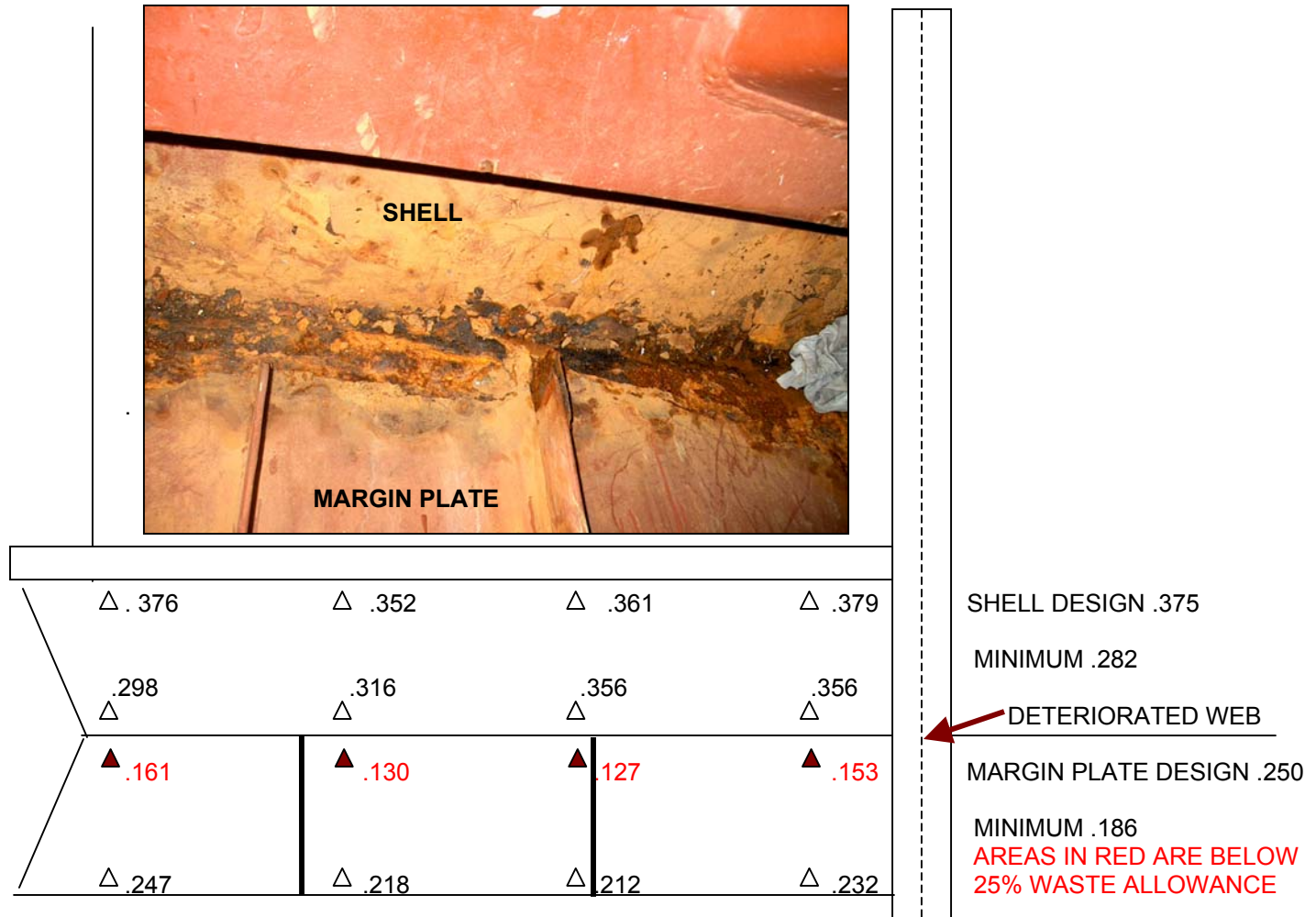


CORROSION ON SHELL AND STRINGERS AT FRAME 324 LOOKING AFT.  
CSMP A162



BULKHEAD 328

FRAME 324



**USS TAYLOR (FFG-50)  
AUXILIARY MACHINERY ROOM 3 (5-292-0-E) PORT SIDE**

**J.LAROCK U/T LEVEL 2  
Q.E.D. SYSTEMS INC.  
19 FEBRUARY 2003**

# MATERIAL ASSESSMENT FORM

ITEM NUMBER		SHIP USS TAYLOR (FFG-50)			
SYSTEM SHELL & SUPPORTING STRUCTURE		ESWBS 11011	EIC A100	APL N/A	RIN 31TZQ
EQUIPMENT NAME HULL STRUCTURE		IDENT/SERIAL N/A	LOCATION 5-250-0-E	WORK CENTER EM04	JSN A346
EQUIPMENT STATUS		PROBLEM STATUS		CATEGORY	EOC
1. SAT - SATISFACTORY 2. UNSAT - UNSATISFACTORY 3. TNA - TEST NOT ATTEMPTED 4. TNC - TEST NOT COMPLETED 5. NOB - EQUIPMENT NOT ONBOARD		1. C - CORRECTED 2. A - AWAITING PARTS 3. T - AWAITING TECH ASSIST* 4. S - SHIP'S FORCE *UNCORRECTED PROBLEMS		1. S - PERSONNEL SAFETY 2. Z - EQUIPMENT SAFETY 3. H - HARDWARE 4. D - DOWN 5. L - LIMITED	.8
TYPE/AVAILABILITY	WHEN TO BE ACCOMPLISHED	STATUS	CAUSE	DEFERRAL REASON	
1. DEPOT 2. IMA 3. TECH ASSIST 4. SHIP'S FORCE 5. SFWL	1. IMMEDIATELY 2. PRIOR TO NEXT UNDERWAY 3. PRIOR TO NEXT DEPLOYMENT 4. DURING POST DEPLOYMENT AVAILABILITY	1. OPERATIONAL 2. NON-OPERATIONAL 3. REDUCED CAPABILITY 0. NOT APPLICABLE	1. ABNORMAL ENVIRONMENT 2. MANUFACTURER/INSTALLATION DEFECTS 3. LACK OF KNOWLEDGE 4. COMMUNICATION PROBLEMS 5. INADEQUATE INSTRUCTION/PROCEDURE 6. INADEQUATE DESIGN 7. NORMAL WEAR AND TEAR 0. NOT APPLICABLE	1. S/F BACKLOG/OPERATIONAL PRIORITY 2. LACK OF MATERIAL 3. NO FORMAL TRAINING ON THIS EQUIPMENT 4. FORMAL TRAINING INADEQUATE IN THIS EQUIPMENT 5. INADEQUATE SCHOOL PRACTICAL TRAINING 6. LACK OF FACILITIES/CAPABILITIES 7. NOT AUTHORIZED FOR S/F ACCOMPLISHMENT 8. FOR S/F OVERHAUL OR AVAILABILITY WORK LIST 9. LACK OF TECHNICAL DOCUMENTATION 0. OTHER OR NOT APPLICABLE	
MAN HRS EXPENDED 2	MAN HRS REMAINING	COMPLETED ACTION TAKEN		S/F MANHOURS	PRIORITY
SAFETY HAZARD: 1. SERIOUS - CORRECT AS SOON AS POSSIBLE 2. SERIOUS - SUSPENSION OF EQUIPMENT/SYSTEM/SPACE REQUIRED 3. SERIOUS - WAIVER OF EQUIPMENT/SYSTEM 4. SAFETY ITEM - MINOR 5. COMBUSTIBLE MATERIAL		1. MAINTENANCE ACTION COMPLETED: PARTS DRAWN FROM SUPPLY 2. MAINTENANCE ACTION COMPLETED: REQUIRED PARTS NOT DRAWN FROM SUPPLY 3. MAINTENANCE ACTION COMPLETED: NO PARTS REQUIRED 4. CANCELLED - DEFERRAL WILL BE REMOVED FROM CSMP 7. MAINTENANCE ACTION COMPLETED: 3-M CAPABILITY UTILIZED 0. NONE OF THE ABOVE, DESCRIBE IN REMARKS/DESCRIPTION SECTION			1. MANDATORY 2. ESSENTIAL 3. HIGHLY DESIRABLE 4. DESIRABLE
<b>DISCREPANCY DESCRIPTION: PER HM&amp;ERA UNDERWATER HULL ASSESSMENT: 5-250-0-E MAIN ENGINE ROOM PORT SIDE</b>					
THE 3 <sup>RD</sup> , 4TH AND 5 <sup>TH</sup> STRINGERS FROM THE MARGIN PLATE ARE HOLED IN SEVERAL PLACES BETWEEN FRAMES 264 AND 270.					
<b>RECOMMENDED REPAIRS: CUT OUT ALL THREE STRINGERS FROM 1-FOOT FWD OF FRAME 264 TO 1 FOOT AFT OF FRAME 270.</b>					
REPLACE WITH (6X6 ½ T BEAM). APPROX 24 LINEAR FEET. PRIME AND PAINT . REFER TO NAVSHIPS DRAWING 553431 REV A					
<b>SSPORT C221 POC: B. WILLIAMS (757-396-4001 EXT-2166 ) TPOC: C. BUCK</b>					
<b>CSMP SUMMARY: HOLED STRINGERS, MER</b>				<b>TEST#</b> MRC 1102/1	
<b>ROOT CAUSE/AMPLIFICATION:</b> H1				<b>STEP#</b> 1 THRU 5	
<b>SYSTEM LEVEL IMPACT:</b>					
PART NO.	NOMENCLATURE		QTY	NSN	COST
1					
2					
3					
4					
5					
6					
FIRST CONTACT GUEVERA		RATE DC1	SECOND CONTACT REYES		RATE DCC
ASSESSOR / ACT / TECH ID# J. LAROCK QED SYSTEMS INC			TD	TL	LOGISTICIAN
					TSP

**USS TAYLOR (FFG-50)  
MAIN ENGINE ROOM (5-250-0-E)**

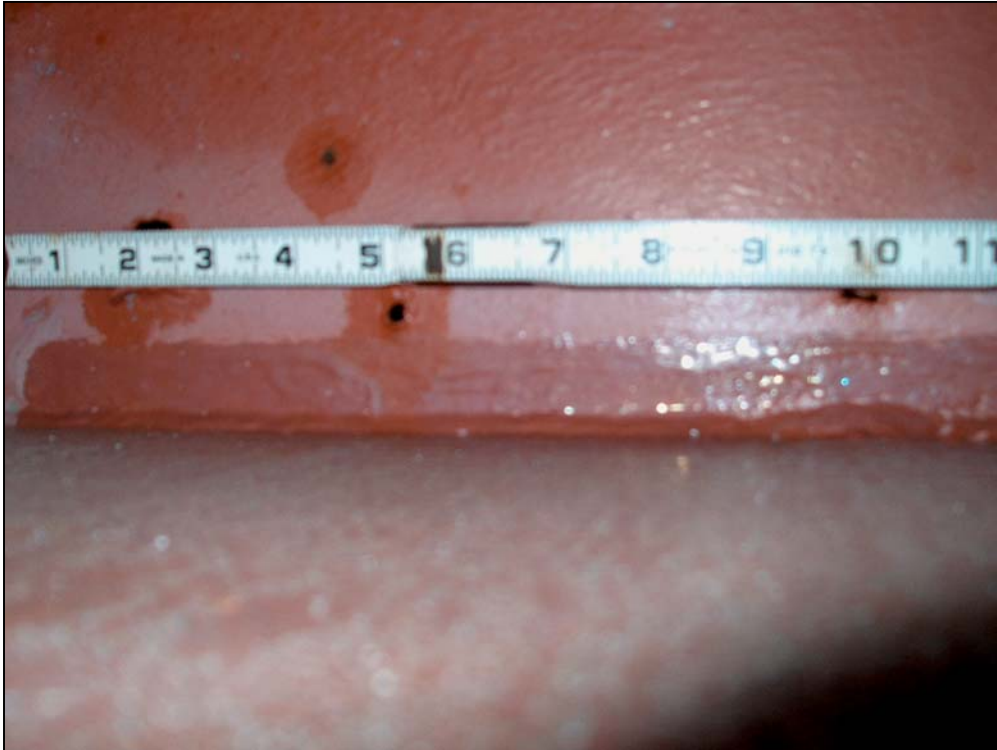


HOLED STRINGER (5<sup>TH</sup> FROM THE MARGIN PLATE) APPROXIMATELY  
2 FEET FORWARD OF FRAME 270, PORT SIDE JSN. A341



4<sup>TH</sup> STRINGER FROM THE MARGIN PLATE AT FRAME 270, PORT SIDE.

**USS TAYLOR (FFG-50)  
MAIN ENGINE ROOM (5-250-0-E)**



3<sup>RD</sup> STRINGER FROM THE MARGIN PLATE IS HOLED IN SEVERAL PLACES BETWEEN  
FRAMES 264 AND 270, PORTSIDE. JSN A346

# MATERIAL ASSESSMENT FORM

ITEM NUMBER		SHIP USS TAYLOR (FFG-50)			
SYSTEM SHELL & SUPPORTING STRUCTURE		ESWBS 11011	EIC A100	APL N/A	RIN 31TZQ
EQUIPMENT NAME HULL STRUCTURE		IDENT/SERIAL N/A	LOCATION 5-250-0-E	WORK CENTER EM04	JSN A427
EQUIPMENT STATUS		PROBLEM STATUS		CATEGORY	EOC
1. SAT - SATISFACTORY 2. UNSAT - UNSATISFACTORY 3. TNA - TEST NOT ATTEMPTED 4. TNC - TEST NOT COMPLETED 5. NOB - EQUIPMENT NOT ONBOARD		1. C - CORRECTED 2. A - AWAITING PARTS 3. T - AWAITING TECH ASSIST* 4. S - SHIP'S FORCE *UNCORRECTED PROBLEMS		1. S - PERSONNEL SAFETY 2. Z - EQUIPMENT SAFETY 3. H - HARDWARE 4. D - DOWN 5. L - LIMITED	.8
TYPE/AVAILABILITY	WHEN TO BE ACCOMPLISHED	STATUS	CAUSE	DEFERRAL REASON	
1. DEPOT 2. IMA 3. TECH ASSIST 4. SHIP'S FORCE 5. SFWL	1. IMMEDIATELY 2. PRIOR TO NEXT UNDERWAY 3. PRIOR TO NEXT DEPLOYMENT 4. DURING POST DEPLOYMENT AVAILABILITY	1. OPERATIONAL 2. NON-OPERATIONAL 3. REDUCED CAPABILITY 0. NOT APPLICABLE	1. ABNORMAL ENVIRONMENT 2. MANUFACTURER/INSTALLATION DEFECTS 3. LACK OF KNOWLEDGE 4. COMMUNICATION PROBLEMS 5. INADEQUATE INSTRUCTION/PROCEDURE 6. INADEQUATE DESIGN 7. NORMAL WEAR AND TEAR 0. NOT APPLICABLE	1. S/F BACKLOG/OPERATIONAL PRIORITY 2. LACK OF MATERIAL 3. NO FORMAL TRAINING ON THIS EQUIPMENT 4. FORMAL TRAINING INADEQUATE IN THIS EQUIPMENT 5. INADEQUATE SCHOOL PRACTICAL TRAINING 6. LACK OF FACILITIES/CAPABILITIES 7. NOT AUTHORIZED FOR S/F ACCOMPLISHMENT 8. FOR S/F OVERHAUL OR AVAILABILITY WORK LIST 9. LACK OF TECHNICAL DOCUMENTATION 0. OTHER OR NOT APPLICABLE	
MAN HRS EXPENDED 2	MAN HRS REMAINING	COMPLETED ACTION TAKEN		S/F MANHOURS	PRIORITY
SAFETY HAZARD: 1. SERIOUS - CORRECT AS SOON AS POSSIBLE 2. SERIOUS - SUSPENSION OF EQUIPMENT/SYSTEM/SPACE REQUIRED 3. SERIOUS - WAIVER OF EQUIPMENT/SYSTEM 4. SAFETY ITEM - MINOR 5. COMBUSTIBLE MATERIAL		1. MAINTENANCE ACTION COMPLETED: PARTS DRAWN FROM SUPPLY 2. MAINTENANCE ACTION COMPLETED: REQUIRED PARTS NOT DRAWN FROM SUPPLY 3. MAINTENANCE ACTION COMPLETED: NO PARTS REQUIRED 4. CANCELLED - DEFERRAL WILL BE REMOVED FROM CSMP 7. MAINTENANCE ACTION COMPLETED: 3-M CAPABILITY UTILIZED 0. NONE OF THE ABOVE, DESCRIBE IN REMARKS/DESCRIPTION SECTION		1. MANDATORY 2. ESSENTIAL 3. HIGHLY DESIRABLE 4. DESIRABLE	
<b>DISCREPANCY DESCRIPTION: PER HM&amp;ERA 2 UNDERWATER HULL ASSESSMENT: 5-250-0-E MAIN ENGINE ROOM STARBOARD</b>					
SIDE BETWEEN BHD 250 AND FRAME 278. HULL INSULATION FROM 3 <sup>RD</sup> STRINGER ABOVE DECK DOWN INTO BILGE APPROX.200					
SQFT IS SATURATED AND HIDING CORROSION, CORROSION RUNS TO AND INCLUDES THE MARGIN PLATE APPROX 400 SQFT.					
<b>RECOMMENDED REPAIRS: REMOVE APPROX. 200 SQFT OF HULL INSULATION, REMOVE CORROSION FROM 3<sup>RD</sup> STRINGER ABOVE DECK TO AND INCLUDING THE MARGIN PLATE, PRIME AND PAINT APPROX. 400 SQFT OF AREA. REPLACEMENT OF THE INSULATION IS NOT RECOMMENDED.</b>					
<b>SSPORT C221 POC: B. WILLIAMS (757-396-4001 EXT-2166 ) TPOC: C. BUCK</b>					
<b>CSMP SUMMARY: SATURATED INSULATION ,CORROSION STBD, MER</b>				<b>TEST#</b> MRC 1102/1	
<b>ROOT CAUSE/AMPLIFICATION:</b> H1				<b>STEP#</b> 1 THRU 5	
<b>SYSTEM LEVEL IMPACT:</b>					
PART NO.	NOMENCLATURE		QTY	NSN	COST
1					
2					
3					
4					
5					
6					
FIRST CONTACT GUEVERA		RATE DC1	SECOND CONTACT REYES		RATE DCC
ASSESSOR / ACT / TECH ID# J. LAROCK QED SYSTEMS INC		TD	TL	LOGISTICIAN	TSP



**USS TAYLOR (FFG-50)  
MAIN ENGINE ROOM (5-250-0-E)**



STARBOARD SIDE, FRAME 264. CORROSION ON THE SHELL AND STRINGER THAT WAS HIDDEN BY THE HULL INSULATION. PERMANENT REMOVAL OF THE INSULATION FROM BULKHEAD 250 TO FRAME 278 IS RECOMMENDED. THIS IS A HIGH CORROSION AREA ON THE FFG-7 CLASS. JSN A427



CORROSION ON DECK LEVEL STRINGER AFT OF FRAME 264. JSN A427

**USS TAYLOR (FFG-50)  
MAIN ENGINE ROOM (5-250-0-E)**



CORROSION ON DECK LEVEL STRINGER FORWARD OF FRAME 264. JSN-A427

# MATERIAL ASSESSMENT FORM

ITEM NUMBER		SHIP USS TAYLOR (FFG-50)			
SYSTEM SHELL & SUPPORTING STRUCTURE		ESWBS 11011	EIC A100	APL N/A	RIN 31TZK
EQUIPMENT NAME HULL STRUCTURE		IDENT/SERIAL N/A	LOCATION 5-212-0-E	WORK CENTER EM04	JSN A339
EQUIPMENT STATUS		PROBLEM STATUS		CATEGORY	EOC
1. SAT - SATISFACTORY 2. UNSAT - UNSATISFACTORY 3. TNA - TEST NOT ATTEMPTED 4. TNC - TEST NOT COMPLETED 5. NOB - EQUIPMENT NOT ONBOARD		1. C - CORRECTED 2. A - AWAITING PARTS 3. T - AWAITING TECH ASSIST* 4. S - SHIP'S FORCE *UNCORRECTED PROBLEMS		1. S - PERSONNEL SAFETY 2. Z - EQUIPMENT SAFETY 3. H - HARDWARE 4. D - DOWN 5. L - LIMITED	.8
TYPE/AVAILABILITY	WHEN TO BE ACCOMPLISHED	STATUS	CAUSE	DEFERRAL REASON	
1. DEPOT 2. IMA 3. TECH ASSIST 4. SHIP'S FORCE 5. SFWL	1. IMMEDIATELY 2. PRIOR TO NEXT UNDERWAY 3. PRIOR TO NEXT DEPLOYMENT 4. DURING POST DEPLOYMENT AVAILABILITY	1. OPERATIONAL 2. NON-OPERATIONAL 3. REDUCED CAPABILITY 0. NOT APPLICABLE	1. ABNORMAL ENVIRONMENT 2. MANUFACTURER/INSTALLATION DEFECTS 3. LACK OF KNOWLEDGE 4. COMMUNICATION PROBLEMS 5. INADEQUATE INSTRUCTION/PROCEDURE 6. INADEQUATE DESIGN 7. NORMAL WEAR AND TEAR 0. NOT APPLICABLE	1. S/F BACKLOG/OPERATIONAL PRIORITY 2. LACK OF MATERIAL 3. NO FORMAL TRAINING ON THIS EQUIPMENT 4. FORMAL TRAINING INADEQUATE IN THIS EQUIPMENT 5. INADEQUATE SCHOOL PRACTICAL TRAINING 6. LACK OF FACILITIES/CAPABILITIES 7. NOT AUTHORIZED FOR S/F ACCOMPLISHMENT 8. FOR S/F OVERHAUL OR AVAILABILITY WORK LIST 9. LACK OF TECHNICAL DOCUMENTATION 0. OTHER OR NOT APPLICABLE	
MAN HRS EXPENDED 2	MAN HRS REMAINING	COMPLETED ACTION TAKEN		S/F MANHOURS	PRIORITY
SAFETY HAZARD: 1. SERIOUS - CORRECT AS SOON AS POSSIBLE 2. SERIOUS - SUSPENSION OF EQUIPMENT/SYSTEM/SPACE REQUIRED 3. SERIOUS - WAIVER OF EQUIPMENT/SYSTEM 4. SAFETY ITEM - MINOR 5. COMBUSTIBLE MATERIAL		1. MAINTENANCE ACTION COMPLETED: PARTS DRAWN FROM SUPPLY 2. MAINTENANCE ACTION COMPLETED: REQUIRED PARTS NOT DRAWN FROM SUPPLY 3. MAINTENANCE ACTION COMPLETED: NO PARTS REQUIRED 4. CANCELLED - DEFERRAL WILL BE REMOVED FROM CSMP 7. MAINTENANCE ACTION COMPLETED: 3-M CAPABILITY UTILIZED 0. NONE OF THE ABOVE, DESCRIBE IN REMARKS/DESCRIPTION SECTION		1. MANDATORY 2. ESSENTIAL 3. HIGHLY DESIRABLE 4. DESIRABLE	
DISCREPANCY DESCRIPTION: PER HM&ERA UNDERWATER HULL ASSESSMENT: 5-212-0-E AMR 2 STARBOARD SIDE, STRINGER 8					
IS HOLED BELOW OVBD DISCHARGE BETWEEN BHD 212 AND FRAME 220.					
RECOMMENDED REPAIRS: CUT OUT APPROX 3 FEET OF STRINGER 8 STARTING FROM 18" FORWARD OF OVBD					
DISCHARGE, REPLACE WITH (6X6 1/2 T-BEAM ). PRIME AND PAINT. REFER TO NAVSHIPS DRAWING 553431 REV A.					
SSPORT C221 POC: B. WILLIAMS (757-396-4001 EXT-2166 ) TPOC: C. BUCK					
CSMP SUMMARY: DETERIORATED STRINGER AMR2				TEST# MRC 1102/1	
ROOT CAUSE/AMPLIFICATION: H1				STEP# 1 THRU 5	
SYSTEM LEVEL IMPACT:					
PART NO.	NOMENCLATURE		QTY	NSN	COST
1					
2					
3					
4					
5					
6					
FIRST CONTACT GUEVERA	RATE DC1	SECOND CONTACT REYES		RATE DCC	PHONE
ASSESSOR / ACT / TECH ID# J. LAROCK QED SYSTEMS INC			TD	TL	LOGISTICIAN TSP

# MATERIAL ASSESSMENT FORM

ITEM NUMBER		SHIP USS TAYLOR (FFG-50)			
SYSTEM SHELL & SUPPORTING STRUCTURE		ESWBS 11011	EIC A100	APL N/A	RIN 31TZK
EQUIPMENT NAME HULL STRUCTURE		IDENT/SERIAL N/A	LOCATION 5-212-0-E	WORK CENTER EM04	JSN A 344
EQUIPMENT STATUS		PROBLEM STATUS		CATEGORY	EOC
1. SAT - SATISFACTORY 2. UNSAT - UNSATISFACTORY 3. TNA - TEST NOT ATTEMPTED 4. TNC - TEST NOT COMPLETED 5. NOB - EQUIPMENT NOT ONBOARD		1. C - CORRECTED 2. A - AWAITING PARTS 3. T - AWAITING TECH ASSIST* 4. S - SHIP'S FORCE *UNCORRECTED PROBLEMS		1. S - PERSONNEL SAFETY 2. Z - EQUIPMENT SAFETY 3. H - HARDWARE 4. D - DOWN 5. L - LIMITED	.8
TYPE/AVAILABILITY	WHEN TO BE ACCOMPLISHED	STATUS	CAUSE	DEFERRAL REASON	
1. DEPOT 2. IMA 3. TECH ASSIST 4. SHIP'S FORCE 5. SFWL	1. IMMEDIATELY 2. PRIOR TO NEXT UNDERWAY 3. PRIOR TO NEXT DEPLOYMENT 4. DURING POST DEPLOYMENT AVAILABILITY	1. OPERATIONAL 2. NON-OPERATIONAL 3. REDUCED CAPABILITY 0. NOT APPLICABLE	1. ABNORMAL ENVIRONMENT 2. MANUFACTURER/INSTALLATION DEFECTS 3. LACK OF KNOWLEDGE 4. COMMUNICATION PROBLEMS 5. INADEQUATE INSTRUCTION/PROCEDURE 6. INADEQUATE DESIGN 7. NORMAL WEAR AND TEAR 0. NOT APPLICABLE	1. S/F BACKLOG/OPERATIONAL PRIORITY 2. LACK OF MATERIAL 3. NO FORMAL TRAINING ON THIS EQUIPMENT 4. FORMAL TRAINING INADEQUATE IN THIS EQUIPMENT 5. INADEQUATE SCHOOL PRACTICAL TRAINING 6. LACK OF FACILITIES/CAPABILITIES 7. NOT AUTHORIZED FOR S/F ACCOMPLISHMENT 8. FOR S/F OVERHAUL OR AVAILABILITY WORK LIST 9. LACK OF TECHNICAL DOCUMENTATION 0. OTHER OR NOT APPLICABLE	
MAN HRS EXPENDED 2	MAN HRS REMAINING	COMPLETED ACTION TAKEN		S/F MANHOURS	PRIORITY
SAFETY HAZARD: 1. SERIOUS - CORRECT AS SOON AS POSSIBLE 2. SERIOUS - SUSPENSION OF EQUIPMENT/SYSTEM/SPACE REQUIRED 3. SERIOUS - WAIVER OF EQUIPMENT/SYSTEM 4. SAFETY ITEM - MINOR 5. COMBUSTIBLE MATERIAL		1. MAINTENANCE ACTION COMPLETED: PARTS DRAWN FROM SUPPLY 2. MAINTENANCE ACTION COMPLETED: REQUIRED PARTS NOT DRAWN FROM SUPPLY 3. MAINTENANCE ACTION COMPLETED: NO PARTS REQUIRED 4. CANCELLED - DEFERRAL WILL BE REMOVED FROM CSMP 7. MAINTENANCE ACTION COMPLETED: 3-M CAPABILITY UTILIZED 0. NONE OF THE ABOVE, DESCRIBE IN REMARKS/DESCRIPTION SECTION			1. MANDATORY 2. ESSENTIAL 3. HIGHLY DESIRABLE 4. DESIRABLE
<b>DISCREPANCY DESCRIPTION: PER HM&amp;ERA UNDERWATER HULL ASSESSMENT: 5-212-0-E) AMR2 PORT AND STARBOARD.</b>					
STRINGERS 10 & 11 PORT SIDE UPPER LEVEL OUT BOARD OF THE HPAC BETWEEN BHD 212 & FRAME 228					
HAVE HEAVY PAINT SEPARATION AND CORROSION. HULL INSULATION ON THE STARBOARD SIDE FROM STRINGER 9 TO UPPER					
LEVEL DECK BETWEEN BHD 212 & FRAME 228 IS SATURATED AND HIDING CORROSION. APPROX 120 SQFT					
<b>RECOMMENDED REPAIRS: REMOVE INSULATION AND CORROSION ON THE STARBOARD SIDE, APPROX 120 SQFT. REMOVE</b>					
<b>CORROSION ON THE PORT SIDE, APPROX. 20 SQFT. PRIME AND PAINT AREAS ON BOTH SIDES. REPLACEMENT OF THE</b>					
<b>INSULATION IS NOT RECOMMENDED</b>					
<b>SSPORT C221 POC: B. WILLIAMS (757-396-4001 EXT-2166 ) TPOC: C. BUCK</b>					
<b>CSMP SUMMARY: CORROSION PORT AND STBD AMR2</b>				<b>TEST#</b> MRC 1102/1	
<b>ROOT CAUSE/AMPLIFICATION:</b> H1				<b>STEP#</b> 1 THRU 5	
<b>SYSTEM LEVEL IMPACT:</b>					
PART NO.	NOMENCLATURE		QTY	NSN	COST
1					
2					
3					
4					
5					
6					
FIRST CONTACT GUEVERA		RATE DC1	SECOND CONTACT REYES		RATE DCC
ASSESSOR / ACT / TECH ID# J. LAROCK QED SYSTEMS INC		TD	TL	LOGISTICIAN	TSP



**USS TAYLOR (FFG-50)  
AUXILIARY MACHINERY ROOM 2 (5-212-0-E)**



STRINGER 8 BELOW OVERBOARD DISCHARGE, BETWEEN BHD 212 AND FRAME 220  
STARBOARD SIDE. JSN A 341



SATURATED HULL INSULATION AND CORROSION, STARBOARD SIDE AT FRAME 220.  
PERMANENT REMOVAL OF INSULATION FROM BHD 212 TO FRAME 228 IS  
RECOMMENDED. JSN A 344

**USS TAYLOR (FFG-50)  
AUXILIARY MACHINERY ROOM 2 (5-212-0-E)**



CORROSION ON STARBOARD SIDE, UPPER LEVEL OUTBOARD OF THE HPAC  
BETWEEN BHD 212 AND FRAME 220. JSN A344

# CSMP REVIEW

ITEM NUMBER				SHIP USS TAYLOR (FFG-50)			
SYSTEM STRUCTURAL		ESWBS 1100	EIC A100000	APL X-SYSTEMITEM		RIN N/L	
EQUIPMENT NAME SHELL AND SUPPOR		IDENT/SERIAL NONE		LOCATION 5-180-0-E	WORK CENTER EM04		JSN A174
EQUIPMENT STATUS		PROBLEM STATUS		CATEGORY			EOC
1. SAT - SATISFACTORY 2. <b>UNSAT - UNSATISFACTORY</b> 3. TNA - TEST NOT ATTEMPTED 4. TNC - TEST NOT COMPLETED 5. NOB - EQUIPMENT NOT ONBOARD		1. C - CORRECTED 2. A - AWAITING PARTS 3. <b>T - AWAITING TECH ASSIST*</b> 4. S - SHIP'S FORCE *UNCORRECTED PROBLEMS		1. S - PERSONNEL SAFETY 2. Z - EQUIPMENT SAFETY 3. <b>H - HARDWARE</b> 4. D - DOWN 5. L - LIMITED			
TYPE AVAILABILITY	WHEN TO BE ACCOMPLISHED	STATUS	CAUSE		DEFERRAL REASON		
1. DEPOT 2. IMA 3. TECH ASSIST 4. SHIP'S FORCE 5. SFWL  <b>1</b>	1. IMMEDIATELY 2. PRIOR TO NEXT UNDERWAY 3. <b>PRIOR TO NEXT DEPLOYMENT</b> 4. DURING POST DEPLOYMENT AVAILABILITY  DEADLINE DATE:01/24/2003	1. <b>OPERATIONAL</b> 2. NON-OPERATIONAL 3. REDUCED CAPABILITY 0. NOT APPLICABLE  <b>1</b>	1. ABNORMAL ENVIRONMENT 2. MANUFACTURER/INSTALLATION DEFECTS 3. LACK OF KNOWLEDGE 4. COMMUNICATION PROBLEMS 5. INADEQUATE INSTRUCTION/PROCEDURE 6. INADEQUATE DESIGN 7. <b>NORMAL WEAR AND TEAR</b> 0. NOT APPLICABLE  <b>7</b>		1. S/F BACKLOG/OPERATIONAL PRIORITY 2. LACK OF MATERIAL 3. NO FORMAL TRAINING ON THIS EQUIPMENT 4. FORMAL TRAINING INADEQUATE IN THIS EQUIPMENT 5. INADEQUATE SCHOOL PRACTICAL TRAINING 6. <b>LACK OF FACILITIES/CAPABILITIES</b> 7. NOT AUTHORIZED FOR S/F ACCOMPLISHMENT 8. FOR S/F OVERHAUL OR AVAILABILITY WORK LIST 9. LACK OF TECHNICAL DOCUMENTATION  0. OTHER OR NOT APPLICABLE  <b>6</b>		
MAN HRS EXPENDED	MAN HRS REMAINING	COMPLETED ACTION TAKEN		S/F MANHOURS	PRIORITY		
SAFETY HAZARD: 1. SERIOUS - CORRECT AS SOON AS POSSIBLE 2. SERIOUS - SUSPENSION OF EQUIPMENT/SYSTEM/SPACE REQUIRED 3. SERIOUS - WAIVER OF EQUIPMENT/SYSTEM 4. SAFETY ITEM - MINOR 5. COMBUSTIBLE MATERIAL		1. MAINTENANCE ACTION COMPLETED: PARTS DRAWN FROM SUPPLY 2. MAINTENANCE ACTION COMPLETED: REQUIRED PARTS NOT DRAWN FROM SUPPLY 3. MAINTENANCE ACTION COMPLETED: NO PARTS REQUIRED 4. CANCELLED - DEFERRAL WILL BE REMOVED FROM CSMP 7. MAINTENANCE ACTION COMPLETED: 3-M CAPABILITY UTILIZED 0. NONE OF THE ABOVE, DESCRIBE IN REMARKS/DESCRIPTION SECTION			1. MANDATORY 2. ESSENTIAL 3. <b>HIGHLY DESIRABLE</b> 4. DESIRABLE  <b>3</b>		
PER SEMAT II- PORT SIDE, (5-180-0-E) AUX 1 AREAS OF CORROSION WERE FOUND UNDER REEFER COMPRESSOR#2, UNDER HALON BOTTLE STATION AND INBOARD OF BALLAST BLOCKS AFT OF WF (196). MINOR CORRSION WAS FOUND ON SHELL PLATE WHERE IT MEETS WF (204). XXX DUE TO NUMEROUS INTERFERENCES, (BALLAST BLOCKS, PIPING, ETC) RECOMMEND PERAIR ACTIVITY REMOVE BALLAST BLOCKS, HALON BOTTLESS AND OTHER INTERFERENCES INCLUDING WORKBENCH, DECKPLATES, BULKHEAD INSULATION IN ITS ENTIRETY FROM FUEL TANK 5-204-2-F AND CONDUCT SURFACE PREP OF ENTIRE BILGE FROM FRAME 195 TO 212 FROM S-9 DOWN TO SSDG MODULE BULKHEAD INCLUDING DECKPLATE SUPPORTSS AFT TOO ESCAPE TRUNK(FR212). PRESERVE ENTIRE FUEL OIL TANK(5-204-2-F) EXTERIOR BULKHEAD IN AUX 1 TO OVERHEAD . FRONTLOAD FOR TANK PLATING REPLACEMENT OF 10 SQ FT FOR THOSE AREAS FOUND DETERIORATED BEYOND LIMITS. REPLACE ALL CONDENSOR SWS PIPING BRACKETS AND FASTENERS AND GAUGE LINE BRACKETS PRIOR TO PRESERVING THIS BULKHEAD. REINSULATE BULKHEAD DOWN TO LEVEL EQUAL TO S-9. WHEN PRESERVATION IS COMPLETE INCLUDE THOSE BALLAST BLOCK RETAINING BRACKETS REMOVED AS INTERFERENCES IN THE PRESERVATION.							
CSMP SUMMARY: STRUCT 5-180-0-E CORROSION					TEST#		
ROOT CAUSE/AMPLIFICATION					STEP#		
SYSTEM LEVEL IMPACT:							
TECHNICIAN MARK APPROPRIATE BLOCKS: 2-KILO IS:  <input checked="" type="checkbox"/> <b>VALID</b> (NO CORRECTIONS) <input type="checkbox"/> <b>REWRITE</b> (VALID) <input type="checkbox"/> <b>FOUND COMPLETE</b> <input type="checkbox"/> <b>COMPLETED BY SEMAT</b> <input type="checkbox"/> <b>CANCEL</b> (WORK NOT REQUIRED) <input type="checkbox"/> <b>NOT VALIDATED</b>				UPLOAD VALIDATION INFORMATION / CORRECTIONS TO SNAP:  <input type="checkbox"/> <b>YES</b>  <input type="checkbox"/> <b>NO</b>			
FIRST CONTACT TOLLEY	RATE DC2	SECOND CONTACT REYES		RATE DCC	PHONE		
BLUEPRINTS: TECH MANUALS, PLANS, ETC.						ON BRD YES NO	
ASSESSOR: J. LAROCK QED SYSTEMS INC. CODE SSORT C221 757-396-4001			TD	TL	LOGISTICIAN		PAGE NO



**USS TAYLOR (FFG-50)  
AUXILIARY MACHINERY ROOM 1 (5-180-0-E)**



CORROSION ON BHD 204. (CSMP A174) U/T READINGS REVEALED NO SIGNIFICANT LOSS.



CORROSION ON SHELL BELOW REEFER COMPRESSOR 2  
CSMP A174



**USS TAYLOR (FFG-50)  
AUXILIARY MACHINERY ROOM 1 (5-180-0-E)**



CORROSION AND STANDING WATER OUTBOARD OF ESCAPE TRUNK.  
CSMP A174

# MATERIAL ASSESSMENT FORM

ITEM NUMBER		SHIP USS TAYLOR (FFG-50)			
SYSTEM SHELL & SUPPORTING STRUCTURE		ESWBS 11011	EIC A100	APL N/A	RIN N/L
EQUIPMENT NAME HULL STRUCTURE		IDENT/SERIAL N/A	LOCATION 5-51-0-Q	WORK CENTER EM04	JSN A410
EQUIPMENT STATUS		PROBLEM STATUS		CATEGORY	EOC
1. SAT - SATISFACTORY 2. UNSAT - UNSATISFACTORY 3. TNA - TEST NOT ATTEMPTED 4. TNC - TEST NOT COMPLETED 5. NOB - EQUIPMENT NOT ONBOARD		1. C - CORRECTED 2. A - AWAITING PARTS 3. T - AWAITING TECH ASSIST* 4. S - SHIP'S FORCE *UNCORRECTED PROBLEMS		1. S - PERSONNEL SAFETY 2. Z - EQUIPMENT SAFETY 3. H - HARDWARE 4. D - DOWN 5. L - LIMITED	.8
TYPE/AVAILABILITY	WHEN TO BE ACCOMPLISHED	STATUS	CAUSE	DEFERRAL REASON	
1. DEPOT 2. IMA 3. TECH ASSIST 4. SHIP'S FORCE 5. SFWL	1. IMMEDIATELY 2. PRIOR TO NEXT UNDERWAY 3. PRIOR TO NEXT DEPLOYMENT 4. DURING POST DEPLOYMENT AVAILABILITY	1. OPERATIONAL 2. NON-OPERATIONAL 3. REDUCED CAPABILITY 0. NOT APPLICABLE	1. ABNORMAL ENVIRONMENT 2. MANUFACTURER/INSTALLATION DEFECTS 3. LACK OF KNOWLEDGE 4. COMMUNICATION PROBLEMS 5. INADEQUATE INSTRUCTION/PROCEDURE 6. INADEQUATE DESIGN 7. NORMAL WEAR AND TEAR 0. NOT APPLICABLE	1. S/F BACKLOG/OPERATIONAL PRIORITY 2. LACK OF MATERIAL 3. NO FORMAL TRAINING ON THIS EQUIPMENT 4. FORMAL TRAINING INADEQUATE IN THIS EQUIPMENT 5. INADEQUATE SCHOOL PRACTICAL TRAINING 6. LACK OF FACILITIES/CAPABILITIES 7. NOT AUTHORIZED FOR S/F ACCOMPLISHMENT 8. FOR S/F OVERHAUL OR AVAILABILITY WORK LIST 9. LACK OF TECHNICAL DOCUMENTATION 0. OTHER OR NOT APPLICABLE	
MAN HRS EXPENDED 2	MAN HRS REMAINING	COMPLETED ACTION TAKEN		S/F MANHOURS	PRIORITY
SAFETY HAZARD: 1. SERIOUS - CORRECT AS SOON AS POSSIBLE 2. SERIOUS - SUSPENSION OF EQUIPMENT/SYSTEM/SPACE REQUIRED 3. SERIOUS - WAIVER OF EQUIPMENT/SYSTEM 4. SAFETY ITEM - MINOR 5. COMBUSTIBLE MATERIAL		1. MAINTENANCE ACTION COMPLETED: PARTS DRAWN FROM SUPPLY 2. MAINTENANCE ACTION COMPLETED: REQUIRED PARTS NOT DRAWN FROM SUPPLY 3. MAINTENANCE ACTION COMPLETED: NO PARTS REQUIRED 4. CANCELLED - DEFERRAL WILL BE REMOVED FROM CSMP 7. MAINTENANCE ACTION COMPLETED: 3-M CAPABILITY UTILIZED 0. NONE OF THE ABOVE, DESCRIBE IN REMARKS/DESCRIPTION SECTION			1. MANDATORY 2. ESSENTIAL 3. HIGHLY DESIRABLE 4. DESIRABLE
DISCREPANCY DESCRIPTION: PER HM&ERA UNDERWATER HULL ASSESSMENT: 5-51-0-Q FORWARD EDUCTOR ROOM					
PERFORMED U/T SURVEY AS PER CSMP 2733, NO SHELL THINNING WAS FOUND. FLANGE OF STRINGER 1 STBD AT BHD 56 IS DETERIORATED (10X 4 T) 1ST INTERCOSTAL FWD OF BHD 56 IS DETERIORATED.(2X3 T)					
RECOMMENDED REPAIRS: GAS FREE TANK (5-56-0-F) CUT OUT AND REPLACE APPROX 3FT OF S1 STARTING 1FT AFT OF BHD 56, CUT OUT AND REPLACE PORT AND STARBOARD INTERCOSTALS (2X3 T) FROM THE KEEL TO THE 2 <sup>ND</sup> STRINGER, APPROX 16 FT. PRIME AND PAINT AREAS DISTURBED BY REPAIRS. REFER TO NAVSHIPS DRAWING 5534338 REV A					
REWRITE CSMP P020					
SSPORT C221 POC: B. WILLIAMS (757-396-4001 EXT-2166 ) TPOC: C. BUCK					
CSMP SUMMARY: DETERIORATION OF STRINGER & INTERCOSTALS IN 5-51-0-Q				TEST# MRC 1102/1	
ROOT CAUSE/AMPLIFICATION: H1				STEP# 1 THRU 5	
SYSTEM LEVEL IMPACT:					
PART NO.	NOMENCLATURE		QTY	NSN	COST
1					
2					
3					
4					
5					
6					
FIRST CONTACT GUEVERA		RATE DC1	SECOND CONTACT REYES		RATE DCC
ASSESSOR / ACT / TECH ID# J. LAROCK QED SYSTEMS INC		TD	TL	LOGISTICIAN	TSP

**USS TAYLOR (FFG-50)  
FORWARD EDUCTOR ROOM (5-51-0-Q)**



FLANGE OF 1<sup>ST</sup> STRINGER AT BHD 56 STARBOARD SIDE. JSN A410



DETERIORATED 2X3 INTERCOSTAL STARBOARD SIDE. JSN- A410

**USS TAYLOR (FFG-50)  
FORWARD EDUCTOR ROOM (5-51-0-Q)**

BULKHEAD 55

2X3 INTERCOSTALS  
PORT SIDE

BULKHEAD 51

.371 △	.378 △	.371 △	ALL STRINGERS 10X4 ↓
.369 △	.368 △	.364 △	
.362 △	.358 △	.368 △	
.367 △	.355 △	.363 △	
<b>KEEL</b>			
△ .358	△ .363	△ .361	
△ .364	△ .366	△ .358	
△ .364	△ .369	△ .370	
△ .374	△ .366	△ .372	

STARBOARD SIDE  
SHELL DESIGN THICKNESS .375  
MINIMUM .282

J.LAROCK U/T LEVEL 2  
QED SYSTEMS INC  
02/21/03

# MATERIAL ASSESSMENT FORM

ITEM NUMBER		SHIP USS TAYLOR (FFG-50)			
SYSTEM SHELL & SUPPORTING STRUCTURE		ESWBS 11011	EIC A100	APL N/A	RIN N/L
EQUIPMENT NAME HULL STRUCTURE		IDENT/SERIAL N/A	LOCATION 4-100-0-E	WORK CENTER EM04	JSN A 347
EQUIPMENT STATUS		PROBLEM STATUS		CATEGORY	EOC
1. SAT - SATISFACTORY 2. UNSAT - UNSATISFACTORY 3. TNA - TEST NOT ATTEMPTED 4. TNC - TEST NOT COMPLETED 5. NOB - EQUIPMENT NOT ONBOARD		1. C - CORRECTED 2. A - AWAITING PARTS 3. T - AWAITING TECH ASSIST* 4. S - SHIP'S FORCE *UNCORRECTED PROBLEMS		1. S - PERSONNEL SAFETY 2. Z - EQUIPMENT SAFETY 3. H - HARDWARE 4. D - DOWN 5. L - LIMITED	.9
TYPE/AVAILABILITY	WHEN TO BE ACCOMPLISHED	STATUS	CAUSE	DEFERRAL REASON	
1. DEPOT 2. IMA 3. TECH ASSIST 4. SHIP'S FORCE 5. SFWL	1. IMMEDIATELY 2. PRIOR TO NEXT UNDERWAY 3. PRIOR TO NEXT DEPLOYMENT 4. DURING POST DEPLOYMENT AVAILABILITY	1. OPERATIONAL 2. NON-OPERATIONAL 3. REDUCED CAPABILITY 0. NOT APPLICABLE	1. ABNORMAL ENVIRONMENT 2. MANUFACTURER/INSTALLATION DEFECTS 3. LACK OF KNOWLEDGE 4. COMMUNICATION PROBLEMS 5. INADEQUATE INSTRUCTION/PROCEDURE 6. INADEQUATE DESIGN 7. NORMAL WEAR AND TEAR 0. NOT APPLICABLE	1. S/F BACKLOG/OPERATIONAL PRIORITY 2. LACK OF MATERIAL 3. NO FORMAL TRAINING ON THIS EQUIPMENT 4. FORMAL TRAINING INADEQUATE IN THIS EQUIPMENT 5. INADEQUATE SCHOOL PRACTICAL TRAINING 6. LACK OF FACILITIES/CAPABILITIES 7. NOT AUTHORIZED FOR S/F ACCOMPLISHMENT 8. FOR S/F OVERHAUL OR AVAILABILITY WORK LIST 9. LACK OF TECHNICAL DOCUMENTATION 0. OTHER OR NOT APPLICABLE	
MAN HRS EXPENDED 2	MAN HRS REMAINING	COMPLETED ACTION TAKEN		S/F MANHOURS	PRIORITY
SAFETY HAZARD: 1. SERIOUS - CORRECT AS SOON AS POSSIBLE 2. SERIOUS - SUSPENSION OF EQUIPMENT/SYSTEM/SPACE REQUIRED 3. SERIOUS - WAIVER OF EQUIPMENT/SYSTEM 4. SAFETY ITEM - MINOR 5. COMBUSTIBLE MATERIAL		1. MAINTENANCE ACTION COMPLETED: PARTS DRAWN FROM SUPPLY 2. MAINTENANCE ACTION COMPLETED: REQUIRED PARTS NOT DRAWN FROM SUPPLY 3. MAINTENANCE ACTION COMPLETED: NO PARTS REQUIRED 4. CANCELLED - DEFERRAL WILL BE REMOVED FROM CSMP 7. MAINTENANCE ACTION COMPLETED: 3-M CAPABILITY UTILIZED 0. NONE OF THE ABOVE, DESCRIBE IN REMARKS/DESCRIPTION SECTION			1. MANDATORY 2. ESSENTIAL 3. HIGHLY DESIRABLE 4. DESIRABLE
<b>DISCREPANCY DESCRIPTION: PER HM&amp;ERA UNDERWATER HULL ASSESSMENT: 4-100-0-E APU MACHINERY ROOM</b>					
PORT AND STARBOARD BILGE AREAS HAVE HEAVY CORROSION AND PAINT SEPARATION, APPROX. 80 SQFT					
<b>RECOMMENDED REPAIRS: REMOVE PORT AND STARBOARD DECK PLATES, CLEAN AREAS TO BARE METAL, PRIME AND PAINT</b>					
REPLACE DECK PLATES.					
<b>SSPORT C221 POC: B. WILLIAMS (757-396-4001 EXT-2166 ) TPOC: C. BUCK</b>					
<b>CSMP SUMMARY: BILGE CORROSION 4-100-0-E</b>				<b>TEST#</b> MRC 1102/1	
<b>ROOT CAUSE/AMPLIFICATION:</b> H1				<b>STEP#</b> 1 THRU 5	
<b>SYSTEM LEVEL IMPACT:</b>					
PART NO.	NOMENCLATURE		QTY	NSN	COST
1					
2					
3					
4					
5					
6					
FIRST CONTACT GUEVERA		RATE DC1	SECOND CONTACT REYES		RATE DCC
ASSESSOR / ACT / TECH ID# J. LAROCK QED SYSTEMS INC		TD	TL	LOGISTICIAN	TSP



**USS TAYLOR (FFG-50)  
APU MACHINERY ROOM (4-100-0-E)**



CORROSION IN PORT BILGE. JSN A 347



**USS TAYLOR (FFG-50)**  
**APU MACHINERY ROOM (4-100-0-E)**



CORROSION IN STARBOARD BILGE AT BHD 100. JSN A347

# MATERIAL ASSESSMENT FORM

ITEM NUMBER		SHIP USS TAYLOR (FFG-50)			
SYSTEM SHELL & SUPPORTING STRUCTURE		ESWBS 11011	EIC A100	APL N/A	RIN N/L
EQUIPMENT NAME HULL STRUCTURE		IDENT/SERIAL N/A	LOCATION 4-48-1-Q	WORK CENTER EM04	JSN A411
EQUIPMENT STATUS		PROBLEM STATUS		CATEGORY	EOC
1. SAT - SATISFACTORY 2. UNSAT - UNSATISFACTORY 3. TNA - TEST NOT ATTEMPTED 4. TNC - TEST NOT COMPLETED 5. NOB - EQUIPMENT NOT ONBOARD		1. C - CORRECTED 2. A - AWAITING PARTS 3. T - AWAITING TECH ASSIST* 4. S - SHIP'S FORCE *UNCORRECTED PROBLEMS		1. S - PERSONNEL SAFETY 2. Z - EQUIPMENT SAFETY 3. H - HARDWARE 4. D - DOWN 5. L - LIMITED	.8
TYPE/AVAILABILITY	WHEN TO BE ACCOMPLISHED	STATUS	CAUSE	DEFERRAL REASON	
1. DEPOT 2. IMA 3. TECH ASSIST 4. SHIP'S FORCE 5. SFWL	1. IMMEDIATELY 2. PRIOR TO NEXT UNDERWAY 3. PRIOR TO NEXT DEPLOYMENT 4. DURING POST DEPLOYMENT AVAILABILITY	1. OPERATIONAL 2. NON-OPERATIONAL 3. REDUCED CAPABILITY 0. NOT APPLICABLE	1. ABNORMAL ENVIRONMENT 2. MANUFACTURER/INSTALLATION DEFECTS 3. LACK OF KNOWLEDGE 4. COMMUNICATION PROBLEMS 5. INADEQUATE INSTRUCTION/PROCEDURE 6. INADEQUATE DESIGN 7. NORMAL WEAR AND TEAR 0. NOT APPLICABLE	1. S/F BACKLOG/OPERATIONAL PRIORITY 2. LACK OF MATERIAL 3. NO FORMAL TRAINING ON THIS EQUIPMENT 4. FORMAL TRAINING INADEQUATE IN THIS EQUIPMENT 5. INADEQUATE SCHOOL PRACTICAL TRAINING 6. LACK OF FACILITIES/CAPABILITIES 7. NOT AUTHORIZED FOR S/F ACCOMPLISHMENT 8. FOR S/F OVERHAUL OR AVAILABILITY WORK LIST 9. LACK OF TECHNICAL DOCUMENTATION 0. OTHER OR NOT APPLICABLE	
MAN HRS EXPENDED 2	MAN HRS REMAINING	COMPLETED ACTION TAKEN		S/F MANHOURS	PRIORITY
SAFETY HAZARD: 1. SERIOUS - CORRECT AS SOON AS POSSIBLE 2. SERIOUS - SUSPENSION OF EQUIPMENT/SYSTEM/SPACE REQUIRED 3. SERIOUS - WAIVER OF EQUIPMENT/SYSTEM 4. SAFETY ITEM - MINOR 5. COMBUSTIBLE MATERIAL		1. MAINTENANCE ACTION COMPLETED: PARTS DRAWN FROM SUPPLY 2. MAINTENANCE ACTION COMPLETED: REQUIRED PARTS NOT DRAWN FROM SUPPLY 3. MAINTENANCE ACTION COMPLETED: NO PARTS REQUIRED 4. CANCELLED - DEFERRAL WILL BE REMOVED FROM CSMP 7. MAINTENANCE ACTION COMPLETED: 3-M CAPABILITY UTILIZED 0. NONE OF THE ABOVE, DESCRIBE IN REMARKS/DESCRIPTION SECTION			1. MANDATORY 2. ESSENTIAL 3. HIGHLY DESIRABLE 4. DESIRABLE
DISCREPANCY DESCRIPTION: PER HM&ERA UNDERWATER HULL ASSESSMENT: 4-48-1-Q SONAR COOLING EQUIPMENT ROOM					
THE 2 <sup>ND</sup> STRINGER FROM THE DECK AT BHD 56 IS DETERIORATED, BHD 56 IS THINNED BELOW THE 25% WASTAGE CRITERIA WHERE IT MEETS THE DECK AND SHELL. THE SHELL IS THINNED BELOW THE 25% WASTAGE CRITERIA AT BHD 56. THE HULL INSULATION IS SATURATED FROM THE 3 <sup>RD</sup> STRINGER TO THE OVERHEAD.					
RECOMMENDED REPAIRS: CUT OUT APPROX. 4FT OF THE 2 <sup>ND</sup> STRINGER STARTING FROM 1FT AFT OF BHD 56 (4-56-0-M SMALL ARMS MAG) 8X 4 T BEAM, CUT OUT AND REPLACE APPROX. 4 SQFT OF BHD 56 FROM THE SHELL TO 1FT INBOARD AND 4FT UP FROM DECK (.250 OS) CUT OUT AND REPLACE APPROX. 16SQFT OF SHELL PLATING (.375 OS) STARTING FROM 8" AFT OF BHD 56 TO 4FT FWD. REMOVE ALL HULL INSULATION. REMOVE CORROSION, PRIME AND PAINT USING AN ANTI-SWEAT COATING. REFER TO NAVSHIPS DRAWING 5534338 REV A					
SSPORT C221 POC: B. WILLIAMS (757-396-4001 EXT-2166 ) TPOC: C. BUCK					
CSMP SUMMARY: SEVERE DETERIORATION IN 4-48-1-Q				TEST# MRC 1102/1	
ROOT CAUSE/AMPLIFICATION: H1				STEP# 1 THRU 5	
SYSTEM LEVEL IMPACT:					
PART NO.	NOMENCLATURE		QTY	NSN	COST
1					
2					
3					
4					
5					
6					
FIRST CONTACT GUEVERA	RATE DC1	SECOND CONTACT REYES	RATE DCC	PHONE	
ASSESSOR / ACT / TECH ID# J. LAROCK QED SYSTEMS INC			TD	TL	LOGISTICIAN TSP



**USS TAYLOR (FFG-50)  
SONAR COOLING EQUIPMENT ROOM (4-48-1-Q)**



STARBOARD SHELL AND BULKHEAD 56. ARROWS INDICATE LOW U/T READINGS.  
REFER TO DRAWINGS FOR MEASUREMENTS. A411

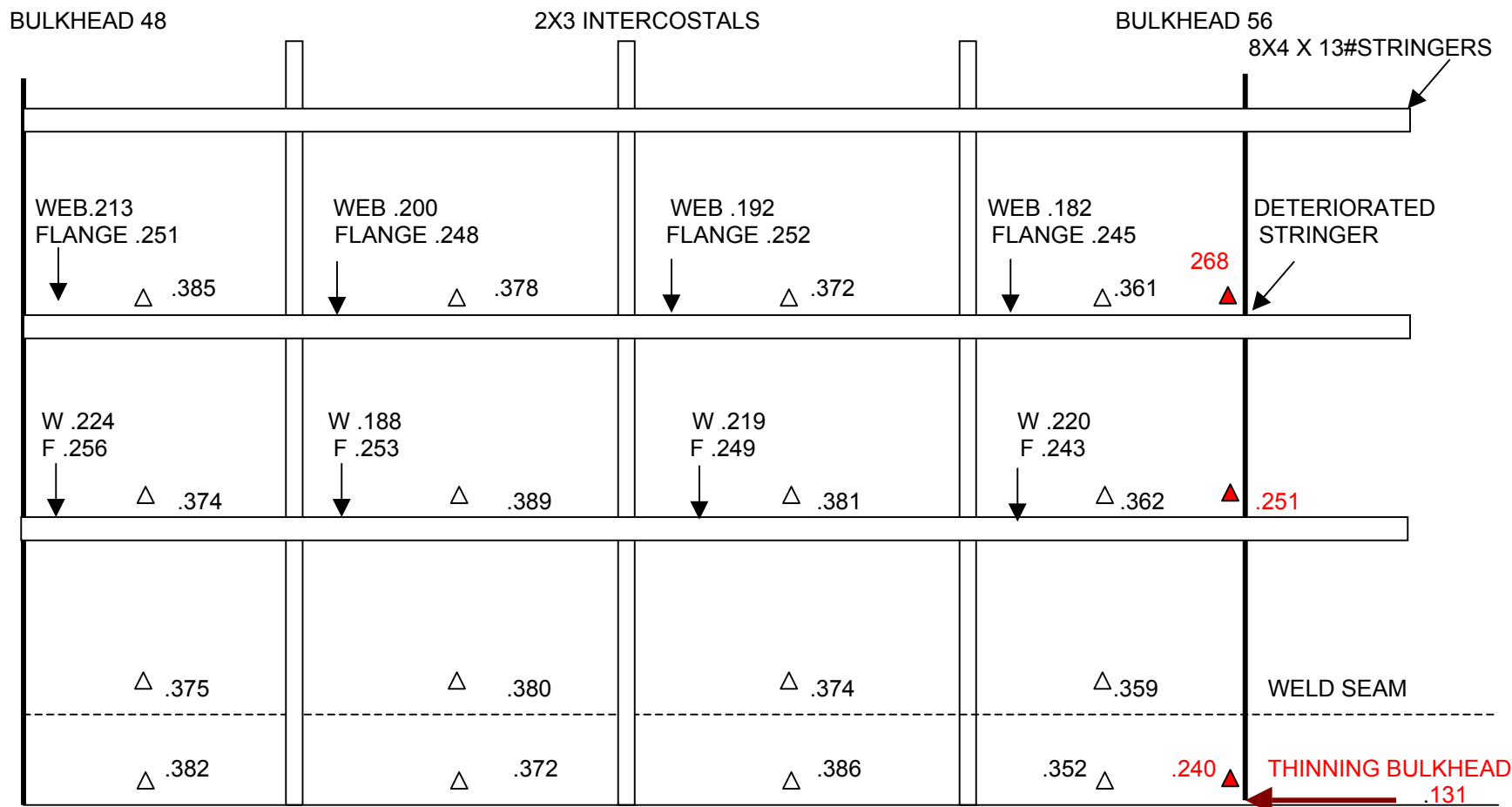


2<sup>ND</sup> STRINGER FROM THE DECK AT BULKHEAD 56. A411

**USS TAYLOR (FFG-50)  
SONAR COOLING EQUIPMENT ROOM (4-48-1-Q)**



WATER TRAPPED IN THE STRINGERS HAS SATURATED THE HULL INSULATION AND CAUSED SERIOUS CORROSION. THE PERMANENT REMOVAL OF THE INSULATION IS RECOMMENDED. THIS IS A COMMON AREA OF CORROSION ON THE (FFG-7) CLASS. JSN-A411



SHELL DESIGN THICKNESS .375  
 MINIMUM .282  
 STRINGER WEB DESIGN .230  
 FLANGE .255

RED DENOTES UNSATISFACTORY READINGS

J.LAROCK U/T LEVEL 2  
 QED SYSTEMS INC.  
 24 FEBRUARY 2003

**USS TAYLOR (FFG-50)  
 SONAR COOLING EQUIPMENT ROOM**

# MATERIAL ASSESSMENT FORM

ITEM NUMBER		SHIP USS TAYLOR (FFG-50)			
SYSTEM SHELL & SUPPORTING STRUCTURE		ESWBS 11011	EIC A501	APL N/A	RIN N/L
EQUIPMENT NAME HULL STRUCTURE		IDENT/SERIAL N/A	LOCATION 3-84-0-E	WORK CENTER EM04	JSN A404
EQUIPMENT STATUS		PROBLEM STATUS		CATEGORY	EOC
1. SAT - SATISFACTORY 2. UNSAT - UNSATISFACTORY 3. TNA - TEST NOT ATTEMPTED 4. TNC - TEST NOT COMPLETED 5. NOB - EQUIPMENT NOT ONBOARD		1. C - CORRECTED 2. A - AWAITING PARTS 3. T - AWAITING TECH ASSIST* 4. S - SHIP'S FORCE *UNCORRECTED PROBLEMS		1. S - PERSONNEL SAFETY 2. Z - EQUIPMENT SAFETY 3. H - HARDWARE 4. D - DOWN 5. L - LIMITED	.8
TYPE/AVAILABILITY	WHEN TO BE ACCOMPLISHED	STATUS	CAUSE	DEFERRAL REASON	
1. DEPOT 2. IMA 3. TECH ASSIST 4. SHIP'S FORCE 5. SFWL	1. IMMEDIATELY 2. PRIOR TO NEXT UNDERWAY 3. PRIOR TO NEXT DEPLOYMENT 4. DURING POST DEPLOYMENT AVAILABILITY	1. OPERATIONAL 2. NON-OPERATIONAL 3. REDUCED CAPABILITY 0. NOT APPLICABLE	1. ABNORMAL ENVIRONMENT 2. MANUFACTURER/INSTALLATION DEFECTS 3. LACK OF KNOWLEDGE 4. COMMUNICATION PROBLEMS 5. INADEQUATE INSTRUCTION/PROCEDURE 6. INADEQUATE DESIGN 7. NORMAL WEAR AND TEAR 0. NOT APPLICABLE	1. S/F BACKLOG/OPERATIONAL PRIORITY 2. LACK OF MATERIAL 3. NO FORMAL TRAINING ON THIS EQUIPMENT 4. FORMAL TRAINING INADEQUATE IN THIS EQUIPMENT 5. INADEQUATE SCHOOL PRACTICAL TRAINING 6. LACK OF FACILITIES/CAPABILITIES 7. NOT AUTHORIZED FOR S/F ACCOMPLISHMENT 8. FOR S/F OVERHAUL OR AVAILABILITY WORK LIST 9. LACK OF TECHNICAL DOCUMENTATION 0. OTHER OR NOT APPLICABLE	
MAN HRS EXPENDED 2	MAN HRS REMAINING	COMPLETED ACTION TAKEN		S/F MANHOURS	PRIORITY
SAFETY HAZARD: 1. SERIOUS - CORRECT AS SOON AS POSSIBLE 2. SERIOUS - SUSPENSION OF EQUIPMENT/SYSTEM/SPACE REQUIRED 3. SERIOUS - WAIVER OF EQUIPMENT/SYSTEM 4. SAFETY ITEM - MINOR 5. COMBUSTIBLE MATERIAL		1. MAINTENANCE ACTION COMPLETED: PARTS DRAWN FROM SUPPLY 2. MAINTENANCE ACTION COMPLETED: REQUIRED PARTS NOT DRAWN FROM SUPPLY 3. MAINTENANCE ACTION COMPLETED: NO PARTS REQUIRED 4. CANCELLED - DEFERRAL WILL BE REMOVED FROM CSMP 7. MAINTENANCE ACTION COMPLETED: 3-M CAPABILITY UTILIZED 0. NONE OF THE ABOVE, DESCRIBE IN REMARKS/DESCRIPTION SECTION			1. MANDATORY 2. ESSENTIAL 3. HIGHLY DESIRABLE 4. DESIRABLE
<b>DISCREPANCY DESCRIPTION: PER HM&amp;ERA UNDERWATER HULL ASSESSMENT: 3-84-0-E A/C MACHINERY ROOM</b>					
DECK WAS ULTRASONICALLY TESTED AS PER CSMP P087. SEVERAL UT READINGS ARE BELOW THE 25% WASTAGE CRITERIA					
HEAVY PITTING IS LOCATED AT THE FOOT OF THE LADDER, AND FROM BHD 100 TO APPROXIMATELY 3 FT FWD, SURROUNDING					
ROUND ACCESS COVER AND RUNNING FORE AND AFT BELOW CHILL WATER PIPE LOCATED APPROX 4 FT PORT OF INBOARD BHD					
.					
<b>RECOMMENDED REPAIRS: GAS FREE AND CLEAN TANK (5-84-2-F), REMOVE CHILL WATER PUMP, FOUNDATION AND PIPING</b>					
INTERFERENCES, LADDER AND DECK CLIPS. CUT OUT DECK FROM BHD 100 TO APPROX. 9 FT FWD AND FROM WELD BUTT					
LOCATED APPROX. 6" TO PORT OF INBOARD BHD TO WELD BUTT APPROX 6FT 6 IN FROM INBOARD BHD. REPLACE WITH .250 OS					
REPLACE ALL INTERFERENCES, LEAK TEST TANK, PRIME AND PAINT.REFER TO NAVSHIPS DWGS. 5534338 REV A & 5534339 REV A					
<b>SSPORT C221 POC: B. WILLIAMS (757-396-4001 EXT-2166 ) TPOC: C. BUCK</b>					
CSMP SUMMARY: THINNING DECK 3-84-0-E				TEST# MRC 1102/1	
ROOT CAUSE/AMPLIFICATION: H1				STEP# 1 THRU 5	
SYSTEM LEVEL IMPACT:					
PART NO.	NOMENCLATURE		QTY	NSN	COST
1					
2					
3					
4					
5					
6					
FIRST CONTACT GUEVERA	RATE DC1	SECOND CONTACT REYES	RATE DCC	PHONE	
ASSESSOR / ACT / TECH ID# J. LAROCK QED SYSTEMS INC			TD	TL	LOGISTICIAN TSP



**USS TAYLOR (FFG-50)  
A/C MACHINERY ROOM (3-84-0-E)**



DEEP PITTING OF THE TANK TOP/ DECK AT THE FOOT OF THE LADDER

JSN-A404

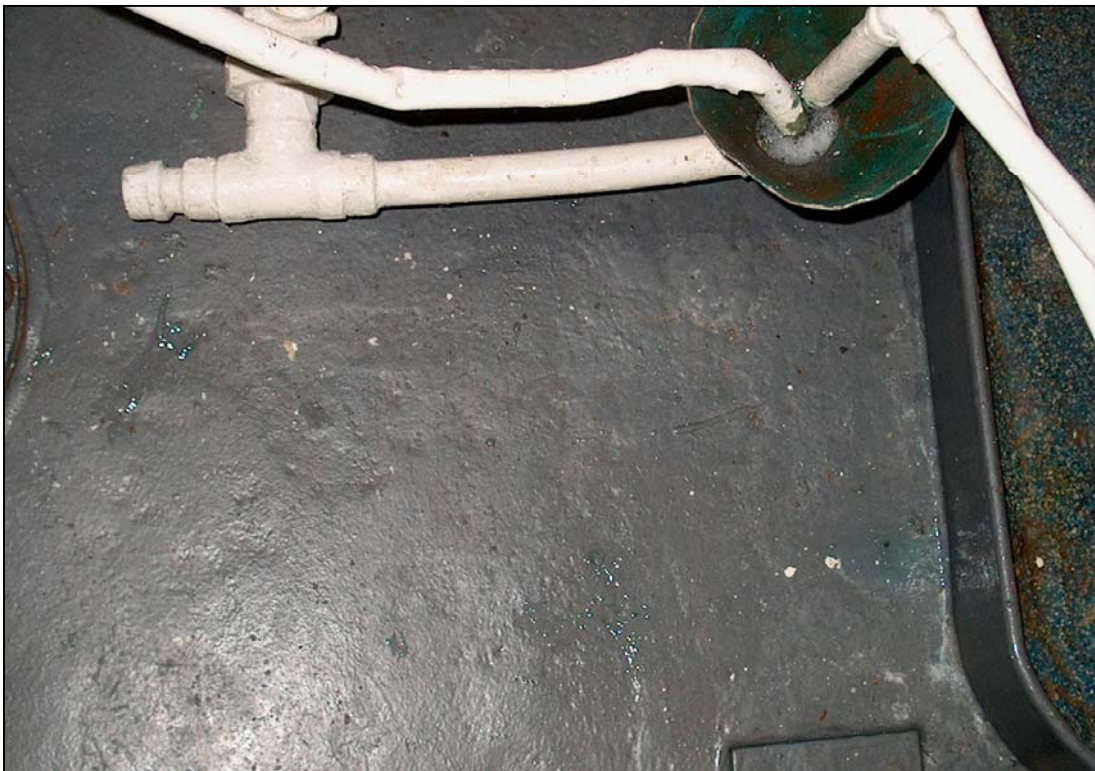




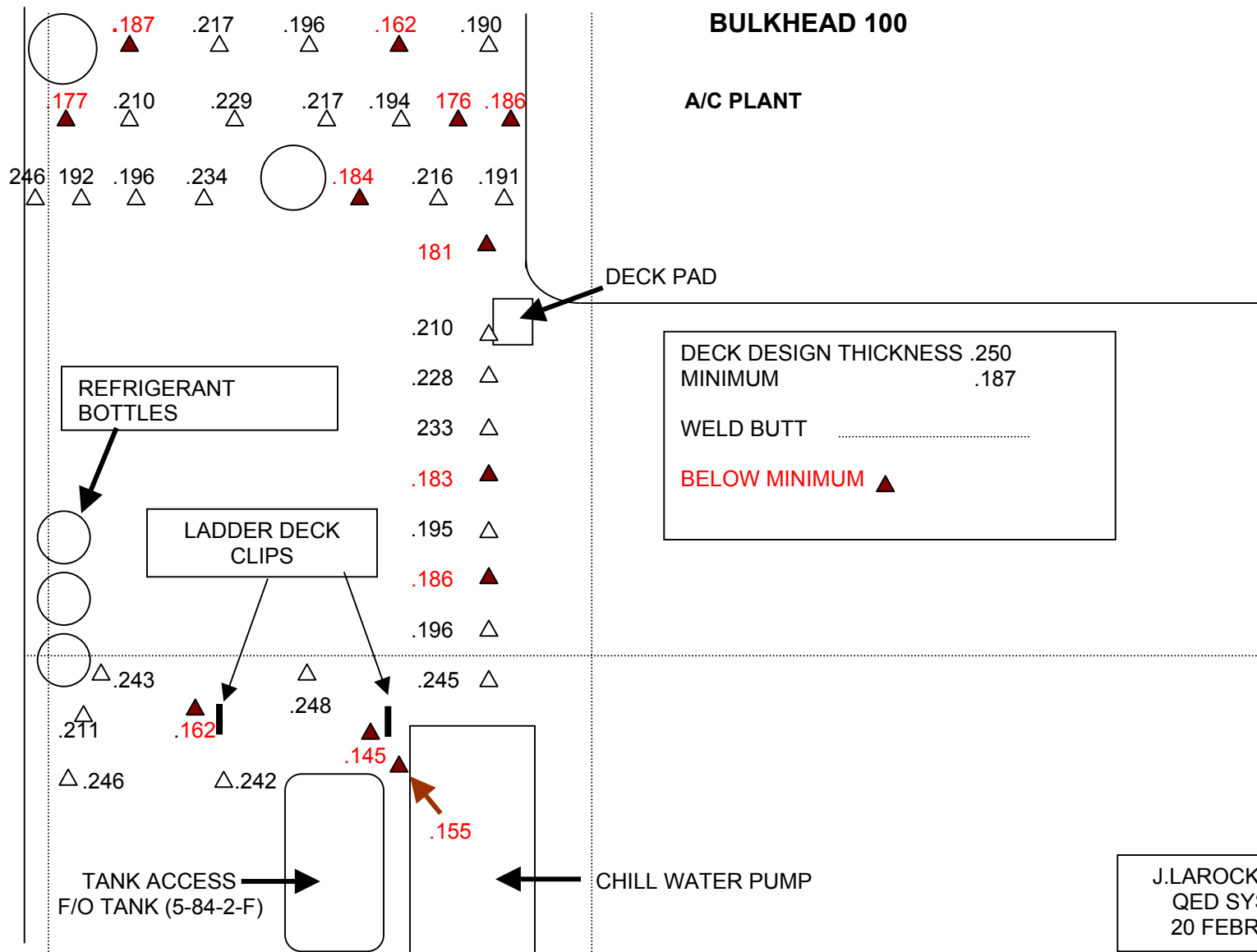
**USS TAYLOR (FFG-50)  
A/C MACHINERY ROOM (3-84-0-E)**



PITTING OF THE DECK, STARBOARD LEG OF THE LADDER. JSN A404



PITTING, INBOARD OF A/C UNIT. JSN A404



J.LAROCK U/T LEVEL 2  
QED SYSTEMS INC  
20 FEBRUARY 2003

## FFG-7 CLASS STRUCTURAL ASSESSMENT MATRIX

SPACE NUMBER	SPACE ASSESSABLE	LAGGING INSTALLED ON BHD	IS THE SPACE INSPECTED DURING HM&ERA 1	HISTORICAL HOT SPOT	COMMENTS
<b>3RD DECK</b>					
3-20-0-Q	N	N	Y		SPACE REQUIRES GAS FREE
3-32-2-A	Y	Y	Y		ACCESSIBLE HIDDEN LAGGED 100% (100% OF SHELL ASSESSABLE)
3-32-1-K	Y	Y	Y		ACCESSIBLE HIDDEN LAGGED 100% (100% OF SHELL ASSESSABLE)
3-36-1-A	Y	Y	Y		
3-36-2-T	Y	Y	Y		ACCESSIBLE HIDDEN LAGGED 100% (100% OF SHELL ASSESSABLE)
3-40-2-A	Y	Y	Y		
3-46-1-A	Y	Y	Y		
3-48-2-A	Y	Y	Y		
3-53-2-A	Y	Y	Y		
3-56-0-A	Y	Y	Y		
3-64-2-V	NOT DURING SHIP CHECK	N	Y		SPACE REQUIRES GAS FREE
3-64-1-V	NOT DURING SHIP CHECK	N	Y		SPACE REQUIRES GAS FREE



### FFG-7 CLASS STRUCTURAL ASSESSMENT MATRIX

SPACE NUMBER	SPACE ASSESSABLE	LAGGING INSTALLED ON BHD	IS THE SPACE INSPECTED DURING HM&ERA 1	HISTORICAL HOT SPOT	COMMENTS
<b>3RD DECK</b>					
3-84-0-E	Y	Y	Y	FRS 94-100 STBD SIDE SHELL, DECK TO OVERHEAD  FR 95, PORT SIDE, ON TANK TOP	ACCESSIBLE HIDDEN LAGGED 100% (100% OF PORT SIDE SHELL ASSESSABLE)  ACCESSIBLE HIDDEN LAGGED 100% (NOT ACCESSIBLE AREA - STBD FWD BHD 84 TO FRAME 93, 5'-6" OFF DECK ELECT PANELS)
3-93-1-Q	Y	Y	Y		ACCESSIBLE LAGGING 100% STBD SIDE
3-100-0-L	Y	Y	Y		ACCESSIBLE HIDDEN LAGGED 100% (NOT ACCESSIBLE AREA PORT AND STBD FROM FRAME 115 TO AFT BHD 140, 6' 3" OFF DECK - BUNKS)
3-100-1-L	Y	Y	Y		LAGGING 100% AND SS 50% (SS INSTALLED 49" OFF DECK, FRAME 100 TO 113)
3-113-0-L	Y	Y	Y	FR 113-124, STBD SIDE OF SHELL, DECK TO OVERHEAD	LAGGING 100% AND SS 50% (SS INSTALLED 49" OFF DECK, FRAME 113 TO 123)
3-140-2-L	Y	Y	Y		LAGGING 100% AND SS 50% (SS INSTALLED 49" OFF DECK, FRAME 140 TO 155)

### FFG-7 CLASS STRUCTURAL ASSESSMENT MATRIX

SPACE NUMBER	SPACE ASSESSABLE	LAGGING INSTALLED ON BHD	IS THE SPACE INSPECTED DURING HM&ERA 1	HISTORICAL HOT SPOT	COMMENTS
<b>3RD DECK</b>					
3-140-1-L	Y	Y	Y		LAGGING 100% AND SS 50% (SS INSTALLED 49" OFF DECK, FRAMES 140 TO 155)
3-144-0-L	Y	Y	Y		ACCESSIBLE HIDDEN LAGGED 100% (NOT ACCESSIBLE AREA, PORT & STBD FRAME 165 TO 180, 6'3" OFF DECK BUNKS)
3-156-2-Q	Y	Y	Y		ACCESSIBLE HIDDEN LAGGED 100% (100% OF PORT SIDE SHELL ASSESSABLE)
3-154-1-Q	Y	Y	Y		ACCESSIBLE HIDDEN LAGGED 100% (100% OF SHELL ASSESSABLE)
3-180-2-C	Y	Y	Y		ACCESSIBLE HIDDEN LAGGED 100% (100% OF SHELL ASSESSABLE)
3-180-5-A	Y	Y	Y		ACCESSIBLE HIDDEN LAGGED 100% (100% OF SHELL ASSESSABLE)
3-196-2-A	Y	Y	Y		ACCESSIBLE HIDDEN LAGGED 100% (100% OF SHELL ASSESSABLE)
3-236-1-F	Y	N	Y		SPACE REQUIRES GAS FREE
3-236-2-F	Y	N	Y		SPACE REQUIRES GAS FREE
3-240-1-F	Y	N	Y		SPACE REQUIRES GAS FREE

### FFG-7 CLASS STRUCTURAL ASSESSMENT MATRIX

SPACE NUMBER	SPACE ASSESSABLE	LAGGING INSTALLED ON BHD	IS THE SPACE INSPECTED DURING HM&ERA 1	HISTORICAL HOT SPOT	COMMENTS
<b>3RD DECK</b>					
3-240-2-F	Y	N	Y		SPACE REQUIRES GAS FREE
3-272-2-F	Y	N	Y		SPACE REQUIRES GAS FREE
3-272-1-F	Y	N	Y		SPACE REQUIRES GAS FREE
3-278-1-F	Y	N	Y		SPACE REQUIRES GAS FREE
3-278-2-F	Y	N	Y		SPACE REQUIRES GAS FREE
3-286-2-F	Y	N	Y		SPACE REQUIRES GAS FREE
3-286-1-F	Y	N	Y		SPACE REQUIRES GAS FREE
3-292-8-F	Y	N	Y		SPACE REQUIRES GAS FREE
3-316-1-J	Y	N	Y		SPACE REQUIRES GAS FREE
3-322-1-J	Y	N	Y		SPACE REQUIRES GAS FREE
3-328-0-A	Y	Y	Y		ACCESSIBLE HIDDEN LAGGED 100% (100% OF SHELL ASSESSABLE)

## FFG-7 CLASS STRUCTURAL ASSESSMENT MATRIX

SPACE NUMBER	SPACE ASSESSABLE	LAGGING INSTALLED ON BHD	IS THE SPACE INSPECTED DURING HM&ERA 1	HISTORICAL HOT SPOT	COMMENTS
<b>4TH DECK</b>					
4-H-0-V	Y	N	Y		SPACE REQUIRES GAS FREE
4-20-0-W	Y	N	Y		SPACE REQUIRES GAS FREE
4-27-0-V	N	N	Y		SPACE REQUIRES GAS FREE FR 27 FR 32 P/S FROM 3' UP 26' 4 1/16
4-32-0-Q	Y	N	Y		
4-48-2-L	Y	Y	Y		ACCESSIBLE HIDDEN LAGGED 100% (100% OF SHELL ASSESSABLE)
4-48-1-Q	Y	Y	Y	FR 49-55 STBD SIDE OF SHELL, 4'-0' OFF DECK	ACCESSIBLE HIDDEN LAGGED 100% (NOT ACCESSIBLE AREA FRAME 50 TO AFT BHD 56, 4'-0' OFF DECK HEATEX & PPG)
4-56-2-A	Y	Y	Y		ACCESSIBLE HIDDEN LAGGED 100% (100% OF SHELL ASSESSABLE)
4-56-0-M	Y	Y	Y		ACCESSIBLE HIDDEN LAGGED 100% (100% OF SHELL ASSESSABLE)

## FFG-7 CLASS STRUCTURAL ASSESSMENT MATRIX

<u>SPACE NUMBER</u>	<b>SPACE ASSESSABLE</b>	<b>LAGGING INSTALLED ON BHD</b>	<b>IS THE SPACE INSPECTED DURING HM&amp;ERA 1</b>	<b>HISTORICAL HOT SPOT</b>	<b>COMMENTS</b>
<b>4TH DECK</b>					
4-64-0-Q	Y	N	Y		
4-100-0-E	Y	Y	Y	FR 100-101 STBD SIDE OF SHELL 6'BELOW GRATING	ACCESSIBLE HIDDEN LAGGED 100% (100% OF PORT & STBD SHELL ASSESSABLE)
4-100-0-Q	Y	Y	Y	TANK TOP FOR 5- 140 & 5-164-2F	STAINLESS STEEL 100% (100% OF PORT SIDE SHELL ASSESSABLE)
4-140-3-A	Y	N	Y		ACCESSIBLE HIDDEN LAGGED 100%(100% OF SHELL ASSESSABLE)
4-152-1-A	Y	N	Y		ACCESSIBLE HIDDEN LAGGED 100% (100% OF SHELL ASSESSABLE)
4-160-0-Q	Y	N	Y		100% OF PORT AND STBD SHELL ASSESSABLE
4-172-1-E	Y	Y	Y	FR 174-180 STBD OF SHELL 6" BELOW GRATING BETWEEN L7-L9	100% OF PORT & STBD SHELL ASSESSABLE

## FFG-7 CLASS STRUCTURAL ASSESSMENT MATRIX

SPACE NUMBER	SPACE ASSESSABLE	LAGGING INSTALLED ON BHD	IS THE SPACE INSPECTED DURING HM&ERA 1	HISTORICAL HOT SPOT	COMMENTS
<b><u>5TH DECK</u></b>					
5-FF-0-V	N	N	N		INACCESSIBLE VOID FR 18 - FR 32, P/S. FROM STEM UP 4FT. FR 5 - FR 18, P/S. FROM STEM UP ~6FT; FR E -12, P/S. FROM STEM UP ~10FT
5-32-0-W	N	N	Y		SPACE REQUIRES GAS FREE
5-51-0-Q	Y	N	Y		100% OF PORT & STBD SHELL ASSESSABLE
5-56-0-F	N	N	Y		SPACE REQUIRES GAS FREE
5-64-0-F	N	N	Y		SPACE REQUIRES GAS FREE
5-84-2-F	N	N	N		SPACE REQUIRES GAS FREE
5-84-1-F	N	N	N		SPACE REQUIRES GAS FREE
5-100-2-W	N	N	N		SPACE REQUIRES GAS FREE
5-100-1-W	N	N	N		SPACE REQUIRES GAS FREE
5-100-4-F	N	N	Y		SPACE REQUIRES GAS FREE
5-100-3-F	N	N	Y		SPACE REQUIRES GAS FREE
5-116-2-F	N	N	Y		SPACE REQUIRES GAS FREE
5-116-1-F	N	N	Y		SPACE REQUIRES GAS FREE

## FFG-7 CLASS STRUCTURAL ASSESSMENT MATRIX

SPACE NUMBER	SPACE ASSESSABLE	LAGGING INSTALLED ON BHD	IS THE SPACE INSPECTED DURING HM&ERA 1	HISTORICAL HOT SPOT	COMMENTS
<b>5TH DECK</b>					
51/2-116-0-V	N	N	N		INACCESSIBLE VOID FR 116 - FR 132, P/S FROM KEEL UP ~4FT
5-132-0-F	N	N	N		SPACE REQUIRES GAS FREE
5-137-1-T	N	N	N		SPACE REQUIRES GAS FREE
5-140-2-F	N	N	N		SPACE REQUIRES GAS FREE
5-140-1-F	N	N	N		SPACE REQUIRES GAS FREE
5-164-0-F	N	N	N		SPACE REQUIRES GAS FREE
5-164-2-F	N	N	N		SPACE REQUIRES GAS FREE
5-164-1-F	N	N	N		SPACE REQUIRES GAS FREE
5-170-0-F	N	N	N		SPACE REQUIRES GAS FREE
5-180-0-E	Y	Y	Y	FRAME 180, PORT 15'-0" OFF CL, 8' SQ'FT	SHELL NON-ASSESSABLE ON PORT SIDE FRAME 180 TO 195, FRAME 204 TO 212, OVERHEAD TO BILGE, TANK & FND
5-180-01-E	Y	Y	Y		100% OF STBD SHELL ASSESSABLE
5-192-2-F	N	N	Y		SPACE REQUIRES GAS FREE
5-201-1-F	N	N	Y		SPACE REQUIRES GAS FREE
5-201-3-F	N	N	Y		SPACE REQUIRES GAS FREE



## FFG-7 CLASS STRUCTURAL ASSESSMENT MATRIX

SPACE NUMBER	SPACE ASSESSABLE	LAGGING INSTALLED ON BHD	IS THE SPACE INSPECTED DURING HM&ERA 1	HISTORICAL HOT SPOT	COMMENTS
<b>5TH DECK</b>					
5-204-2-F	N	N	N		SPACE REQUIRES GAS FREE
5-204-1-F	N	N	N		SPACE REQUIRES GAS FREE
5-212-0-E(UL)	Y	Y	Y	FRS 215-220 PORT SIDE OF SHELL, U/L BETWEEN L13-L14	ACCESSIBLE HIDDEN LAGGED UPPER LEVEL. (NOT ACCESSIBLE AREA, PORT SIDE FRAME 220 TO 224, 5'-0" OFF U/L GRATING VOLTAGE REGULATOR)
5-212-0-E(LL)	Y				ASSESSABLE HIDDEN, LAGGED LOWER LEVEL, ACCESSIBLE AREA PORT FRAME 212 TO 228, L10 TO BILGE AREA, STBD FRAME 212 TO 228 L8 TO BILGE AREA. (NOT ACCESSIBLE AREA - PORT & STBD FRAME 228 TO 250, FROM U/L TO BILGE AREA FUEL OIL HEATER)
5-220-2-W	N	N	N		SPACE REQUIRES GAS FREE
5-222-1-F	N	N	N		SPACE REQUIRES GAS FREE

### FFG-7 CLASS STRUCTURAL ASSESSMENT MATRIX

SPACE NUMBER	SPACE ASSESSABLE	LAGGING INSTALLED ON BHD	IS THE SPACE INSPECTED DURING HM&ERA 1	HISTORICAL HOT SPOT	COMMENTS
<b>5TH DECK</b>					
5-226-2-E	Y	Y	Y		SHELL NON-ASSESSABLE FRAME 225 TO 229, 4'-2" OFF U/L GRATING, FRAME 235 TO 250, 6'-3" OFF U/L GRATING - AIR FLASK, MANIFOLD & FUEL TANK
5-226-1-E	Y	Y	Y		SHELL NON-ASSESSABLE FRAME 225 TO 229, 4'-2" OFF U/L GRATING, FRAME 235 TO 250, 6'-3" OFF U/L GRATING, AIR FLASK, MANIFOLD & FUEL TANK
5-250-0-E	Y	Y	Y	FR 271-272 PORT SIDE OF SHELL TOP OF L0 TANK TOP	LAGGED EXCEPT FOR BILGE AREA, AT 18" ABOVE GRATING INTO BILGE AREA, (SHELL NON-ASSESSABLE ON PORT 1'-0" AFT OF FRAME 270 TO FRAME 292, FROM 5'-0" OFF GRATING, STBD FRAME 265 TO 270 FROM 1'-0" FROM OVERHEAD TO 6" BELOW GRATING, 14" AFT OF FRAME 270 TO 273, 5'-0" OFF GRATING POWER PANELS)

## FFG-7 CLASS STRUCTURAL ASSESSMENT MATRIX

SPACE NUMBER	SPACE ASSESSABLE	LAGGING INSTALLED ON BHD	IS THE SPACE INSPECTED DURING HM&ERA 1	HISTORICAL HOT SPOT	COMMENTS
<b>5TH DECK</b>					
5-250-0-E (CONT'D)	Y	Y	Y	FR 250 PORT SIDE OF SHELL, BETWEEN L9-L12	
5-250-0-E (CONT'D)	Y	Y	Y	FR 258-264 STBD SIDE OF SHELL, BETWEEN L9-L12	
5-250-1-F	N	N	N		SPACE REQUIRES GAS FREE
5-250-2-F	N	N	N		SPACE REQUIRES GAS FREE
5-270-0-F	N	N	N		SPACE REQUIRES GAS FREE
5-276-0-F	N	N	N		SPACE REQUIRES GAS FREE
5-290-2-F	N	N	N		SPACE REQUIRES GAS FREE
5-292-0-E	Y	Y	Y	FR 316-328 PORT SIDE OF SHELL BETWEEN L5-L9	ACCESSIBLE HIDDEN LAGGED, ASSESSABLE AREA PORT FRAME 292 TO 318, DK GRATING TO OVERHEAD (SHELL NON-ASSESSABLE ON PORT FRAME 318 TO 328, 2'-0" FROM GRATING TO OVERHEAD OF SPACE, STBD FRAME 292 TO 300, 3'-0" OFF GRATING

## FFG-7 CLASS STRUCTURAL ASSESSMENT MATRIX

SPACE NUMBER	SPACE ASSESSABLE	LAGGING INSTALLED ON BHD	IS THE SPACE INSPECTED DURING SEMAT 1	HISTORICAL HOT SPOT	COMMENTS
<b>5TH DECK</b>					
5-292-0-E (CONT'D)	Y	Y	Y	FR 316-328 PORT SIDE OF SHELL BETWEEN L5-L9	TO OVERHEAD, FRAME 305 TO 308, 3'-0" OFF GRATING TO OVERHEAD, FRAME 313 TO 328, 6'-3" OFF GRATING & POWER PANELS
5-292-0-E (CONT'D)			Y	FR 292-328 PORT SIDE OF SHELL BETWEEN L1-L3	
5-292-1-W	N	N	N		SPACE REQUIRES GAS FREE
5-292-2-W	N	N	N		SPACE REQUIRES GAS FREE
5-292-3-W	N	N	N		SPACE REQUIRES GAS FREE
5-308-2-W	N	N	N		SPACE REQUIRES GAS FREE
5-308-1-W	N	N	N		SPACE REQUIRES GAS FREE
5-328-0-J	N	N	N		SPACE REQUIRES GAS FREE
5-328-2-W	N	N	N		SPACE REQUIRES GAS FREE

## FFG-7 CLASS STRUCTURAL ASSESSMENT MATRIX

SPACE NUMBER	SPACE ASSESSABLE	LAGGING INSTALLED ON BHD	IS THE SPACE INSPECTED DURING HM&ERA 1	HISTORICAL HOT SPOT	COMMENTS
<u>5TH DECK</u>					
5-328-1-W	N	N	N		SPACE REQUIRES GAS FREE
5-344-0-J	N	N	N		SPACE REQUIRES GAS FREE
5-368-0-V	N	N	N		SPACE REQUIRES GAS FREE
5-386-0-V	N	N	N		INACCESSIBLE VOID FRAME 386 TO 392, P/S, FROM KEEL UP ~2FT; FRAME 392 TO 400, S, FROM KEEL UP ~2FT; FRAME 400 TO 408 P/S FROM KEEL UP ~2FT
5-392-0-V	N	N	N		SPACE REQUIRES GAS FREE
5-368-0-E	Y	Y	Y		ACCESSIBLE HIDDEN LAGGED 100% (100% OF SHELL ASSESSABLE)
5-376-1-A	Y	Y	Y		ACCESSIBLE HIDDEN LAGGED 100% (100% OF SHELL ASSESSABLE)